

4336

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4765

Ile	Arg	His	Glu	Val	Cys	Arg	Val	Leu	Pro	Ala	Pro	Xaa	Leu	Ile	Gly
1				5				10					15		

Ala	Met	Asp	Trp	Lys	Thr	Leu	Gln	Ala	Leu	Leu	Ser	Gly	Val	Asn	Lys
		20					25						30		

Tyr	Ser	Thr	Ala	Phe	Gly	Arg	Ile	Trp	Leu	Ser	Val	Val	Phe	Val	Phe
		35				40					45				

Arg	Val	Leu	Val	Tyr	Val	Val	Ala	Ala	Glu	Arg	Val	Trp	Gly	Asp	Glu
	50				55						60				

Gln	Lys	Asp	Phe	Asp	Cys	Asn	Thr	Lys	Gln	Pro	Gly	Cys	Thr	Asn	Val
65				70					75					80	

Cys	Tyr	Asp	Asn	Tyr	Phe	Pro	Ile	Ser	Asn	Ile	Arg	Leu	Trp	Ala	Leu
			85					90						95	

Gln	Leu	Ile	Phe	Val	Thr	Cys	Pro	Ser	Leu	Leu	Val	Ile	Leu	His	Val
	100						105					110			

Ala	Tyr	Arg	Glu	Glu	Arg	Glu	Arg	Arg	His	Arg	Gln	Lys	His	Gly	Asp
	115					120						125			

Gln	Cys	Ala	Lys	Leu	Tyr	Asp	Asn	Ala	Gly	Xaa	Lys	His	Gly	Gly	Leu
130					135					140					

Trp	Trp	Thr	Tyr	Leu	Phe	Ser	Leu	Ile	Phe	Lys	Leu	Ile	Ile	Glu	Phe
145				150					155					160	

Leu	Phe	Leu	Tyr	Leu	Leu	His	Thr	Leu	Trp	His	Gly	Phe	Asn	Met	Pro
		165						170					175		

Arg	Leu	Val	Gln	Cys	Ala	Asn	Val	Ala	Pro	Cys	Pro	Asn	Ile	Val	Asp
	180						185						190		

Cys	Tyr	Ile	Ala	Arg	Pro	Thr	Glu	Lys	Lys	Ile	Phe	Thr	Tyr	Phe	Met
	195					200					205				

Val	Gly	Ala	Ser	Ala	Val	Cys	Ile	Val	Leu	Thr	Ile	Cys	Glu	Leu	Cys
	210				215					220					

Tyr	Leu	Ile	Cys	His	Arg	Val	Leu	Arg	Gly	Leu	His	Lys	Asp	Lys	Pro
225				230					235					240	

4337

Arg	Gly	Gly	Cys	Ser	Pro	Ser	Ser	Ser	Ala	Ser	Arg	Ala	Ser	Thr	Cys
				245					250					255	

Arg	Cys	His	His	Lys	Leu	Val	Glu	Ala	Gly	Glu	Val	Asp	Pro	Asp	Pro
			260					265					270		

Gly Asn Asn Lys Leu Gln Ala Ser Ala Pro Asn Leu Thr Xaa Ile
275 280 285

<210> 4766

$\langle 211 \rangle$ 90

<212> PRT

<213> Homo sapiens

<400> 4766

Cys Thr Pro Phe Leu Tyr Thr Glu Cys Gly Leu Leu Ser Glu Ile Gly
1 5 10 15

Ser Phe Met Val Leu Glu Pro Pro Leu Tyr Ser Cys Leu Lys Phe Pro
20 25 30

Ile Val Thr Glu Asn Ile Gly Cys Lys Ala Pro Gln Ser Pro Gln Val
35 40 45

Pro	Ser	Val	Ser	Leu	Asn	Val	Leu	Val	Pro	Ser	Arg	Lys	Ala	Ser	Ala
	50					55					60				

Ser Ala Pro Phe Pro Pro Val Pro Ser Pro Arg Ile Met Asn Gly Tyr
65 70 75 80

Cys Thr Val Lys Thr Val Val Ser Phe His
85 90

<210> 4767

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4767

Xaa Ser Gly Gln Lys Pro Gly Val Leu Ile Leu Pro Ser Val Ser Val
1 5 10 15

4338

Leu Gly Ser Gly Phe Cys Arg His Pro Leu Thr Ser Ala Glu Leu Leu
 20 25 30

Gly Leu Leu Pro Ala His His Ile Ala Tyr Leu Gln Cys Gln Ser Leu
 35 40 45

Thr Val Thr Leu Ser Ala Leu Val Ser Leu Ala Glu Pro Arg Cys Pro
 50 55 60

Cys Ser Arg Gly Gln Lys Ala Cys Thr Trp Ala Lys Gly Pro Lys Val
 65 70 75 80

His Trp Thr Val Gly Lys Thr Pro Asp His His Leu Arg Thr Leu Ser
 85 90 95

Gln Asn Gly Lys Phe Thr Arg Thr Pro Phe Leu Ser Leu Cys Glu Ser
 100 105 110

Pro Arg Glu Arg His Cys Thr Asp Ile
 115 120

<210> 4768

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4768

Phe Arg Asp His Pro Cys Lys Phe Pro Lys Asp Phe Phe Asn Met Val
 1 5 10 15

Leu Leu Ile Gln Ser Gly Gln Leu Asn Leu Lys Ser Thr Pro Xaa Lys
 20 25 30

Pro Ser Gly Val Asp Asn Lys Ala His Lys Leu Arg Gln Phe Ser Phe

4339

35

40

45

Leu Xaa Pro Phe Arg Xaa Gly Thr Thr Thr Gly Ser
 50 55 60

<210> 4769

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4769

Val Cys Asn Lys Ile Val Glu Ser Cys Met Ile Lys Ser Leu Leu Cys
 1 5 10 15

Ser Glu Ile His Ser Asp Phe Leu Val Ser Pro Tyr Ile Ile Cys Ile
 20 25 30

Leu Val Phe Phe Leu Thr Leu Leu Pro Leu Leu Pro Asn Arg Asp Leu
 35 40 45

Asn Leu Ser Leu Phe Ser Ser Ser Arg Pro Gly Leu Val Pro Asp Ser
 50 55 60

Ser Lys Asn Leu Asp Ser Lys Ala Tyr Phe Ile Val Cys Leu
 65 70 75

<210> 4770

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4770

Gln Ala Arg Ile His Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Asp
 35

<210> 4771

<211> 87

<212> PRT

<213> Homo sapiens

4340

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4771

Gly Ile Ser Phe Thr Leu Thr His Phe Ala Pro Leu Pro Phe Cys Tyr
 1 5 10 15

Lys Tyr Tyr His Gly Met Lys Gln Lys Ala Cys Tyr Leu Pro Phe His
 20 25 30

Asp His Phe Ala Asp Thr Val Ser Ala Thr Ser Lys Pro Ser Asn Ser
 35 40 45

Met Asn Ser Arg Thr Asp Leu Asn Val Val Cys Val Gln Gly Ser Tyr
 50 55 60

Xaa Asn Phe Leu Asn Leu Lys Cys His Gln Lys Thr Phe Cys Ser Leu
 65 70 75 80

Leu Leu Leu Phe Phe Phe Phe
 85

<210> 4772

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4772

Val Trp Leu Ala Leu Ser Val Val Gly Ser Val Tyr Thr Pro Pro Phe
 1 5 10 15

Ser Ser Leu Gly Val Phe Phe Arg Asn Pro Lys Ala Thr Leu Arg Ala
 20 25 30

Val Leu Thr Phe Leu Ser Thr Val Asp Tyr Pro Cys Leu Leu Gly Gly
 35 40 45

Leu Xaa Met Gly Gln Arg Trp Arg Ser Pro Ser Gly
 50 55 60

4341

<210> 4773

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4773

Lys Lys Lys Ser Phe Ser Glu Gly Glu Lys Ile Val Trp Val Trp Pro
1 5 10 15

Leu His Ile Leu Ala Asn Tyr Val Ala Ile Phe Met Ala Ser Val Ile
20 25 30

Lys Thr Leu Leu Leu Gly Ser Arg Ala Val Val Leu Asp Ser Leu His
35 40 45

Ser Ala His Leu Leu Lys Ser His Glu Ser Ser Leu Glu Ser
50 55 60

<210> 4774

<211> 87

<212> PRT

<213> Homo sapiens

<400> 4774

Thr Ala Gln Gly Ile Gly Cys Thr Lys Leu Val Leu Lys Leu Leu Leu
1 5 10 15

Gly Ser Pro Gly Ala His Val Ser His Leu Leu Pro Ile His Ile Ser
20 25 30

Ala His Leu Ala Glu Ala Phe Pro Asp Leu Thr Ser Asp Asn Val His
35 40 45

Val Met Asn Thr Pro Lys Trp Leu Gly Leu Leu His Leu Ser Arg Trp
50 55 60

Ile Leu Pro Gln His Trp Gly Phe Leu Trp Ala Val His His Gly Tyr
65 70 75 80

Ile Ser Gly Phe Gln Asp Cys
85

<210> 4775

<211> 70

<212> PRT

<213> Homo sapiens

4342

<400> 4775

Ala Lys Cys Met Leu Lys His Val Phe Thr Ser Val Lys Ser Phe Val
1 5 10 15

Asp Leu Leu Glu Met Lys Gly Phe Tyr Leu Asp Thr Val Ser Tyr Thr
20 25 30

Ser Leu Thr Ile Ile Phe Val Ile Val Val Phe Cys Lys Gln Lys Cys
35 40 45

Leu Trp Ala Ser Cys Arg Leu Lys Ile Val Gly Lys Asn Gly Leu Ser
50 55 60

Ser Gly Pro Phe Lys Gln
65 70

<210> 4776

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4776

Leu Asn Gln Met Ile Leu Thr Tyr Tyr Glu Gly Glu Glu Val Asn Ala
1 5 10 15

Gly Arg Ile Gly Leu Thr Leu Val Val Ala Gly Met Val Gly Ser Ile
20 25 30

Leu Cys Gly Leu Trp Leu Asp Tyr Thr Lys Thr Tyr Asn Phe Phe Met
35 40 45

Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu Ile Thr Tyr
50 55 60

4343

Pro Glu Ser Glu Gly Thr Ser Ser Gly Leu Leu Asn Ala Ser Ala Gln
 65 70 75 80

Ile Phe Gly Ile Leu Phe Thr Leu Ala Gln Gly Lys Leu Thr Ser Xaa
 85 90 95

Tyr Gly Pro Lys Ala Gly Asn Ile Xaa Leu Cys Val Trp Met Phe Ile
 100 105 110

Xaa Ile Ile Leu Thr Ala Leu Ile Lys Ser Asp Leu Arg Asp Thr Thr
 115 120 125

<210> 4777

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4777

Thr Asn Asp Tyr Lys Val Ser Val Gly Leu Trp Phe Arg Gly Pro Ser
 1 5 10 15

Xaa Ser Phe Leu Phe Pro Leu Ala Leu Met Arg Glu Met Pro Ser Ser
 20 25 30

Val Trp Ile Phe Leu Gly Ala Leu Trp Arg Asn Gly Val Cys Val Leu
 35 40 45

Thr Glu Glu Ser Gln Lys Xaa Glu Thr Ile Phe Ile Tyr Cys His His
 50 55 60

4344

Lys Tyr Ser Pro Pro Phe Lys Met Pro Val Tyr Thr Ala Ile Trp Glu
 65 70 75 80

Thr Xaa Val Leu Glu Glu Ala Gly Ala Glu Gly Val Lys Thr Ser Ser
 85 90 95

Val Gly

<210> 4778

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4778

Lys Gly Leu Phe Leu His Ile Tyr Ile Ile Tyr Val Tyr Ile Tyr Asn
 1 5 10 15

Ile Tyr Met Xaa Ile Tyr Ile Ile Tyr Ile Tyr Tyr Ile Tyr Asn Ile
 20 25 30

Tyr Ile Lys Tyr Ile Tyr Ile Cys Ser Pro Leu Ser Ala Ser Leu Ser
 35 40 45

Gln Gly Xaa Ser Val Gly Xaa Cys Leu Gly Pro Ala Ser Leu Leu Thr
 50 55 60

Ser Ser Ser Pro Leu Gly Thr Leu Ser Pro Tyr Ile Leu Ile Leu Asp
 65 70 75 80

4345

His Val Xaa Asn Cys Phe Trp Val Asn Val Asp Ile Ile Val Ile Ile
 85 90 95

Ile Ile Asn

<210> 4779

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4779

Gly Phe Lys Ile Gly Arg Lys Cys Ser Ser Gly Lys Met Cys Ala Val
 1 5 10 15

Gln Lys Thr His Lys Phe Phe Arg Lys Gln Leu Gly Pro Val Xaa Val
 20 25 30

Asp Gln Ile Glu Ser Pro Arg Ile Leu Gly Ser Ser Xaa Leu Met Asn
 35 40 45

Gly Phe Trp Leu Ile Leu Pro Val Leu Gln Phe Leu Leu Leu Cys Glu
 50 55 60

Met Gly Asn Thr Leu Ser Ala Ser Leu Arg Cys His Gly Asn Lys Gln
 65 70 75 80

Asn

<210> 4780

<211> 95

<212> PRT

<213> Homo sapiens

<400> 4780

4346

Ser Thr Leu Arg Pro Ala Ala Gly Lys Glu Trp Glu Gln Trp Leu Ser
 1 5 10 15
 Ala Ile Arg Ser Gly Ser Met Gly Gln Trp Leu Asp Phe Cys Pro Arg
 20 25 30
 Pro Glu Glu Cys Ala Val Leu Ala Ser Val Ser Pro Pro Val Ala Leu
 35 40 45
 Val Gln Glu Pro Thr Val Gly Cys Ser Leu Pro Gly Pro Leu Leu Leu
 50 55 60
 Trp Ile Leu Pro Thr Pro Ser Cys Ser Trp Gly Arg Pro Phe Ser Gln
 65 70 75 80
 Arg Ser Leu Asn Lys Pro Lys Asn Pro Gln Lys Lys Lys Lys Lys
 85 90 95

<210> 4781
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 4781
 Phe Ile Cys Thr Thr Phe Phe Arg Val Ala Ala Arg Thr Asn Leu Cys
 1 5 10 15
 Ala Leu Lys Cys Tyr Leu Leu Leu Ser Val Pro Lys Tyr Arg Glu Ile
 20 25 30
 Met Leu Gln Ile Ser Leu Leu Leu Asn Ile Met Leu Pro Asp Ala Phe
 35 40 45
 Ser Arg His
 50

<210> 4782
 <211> 455
 <212> PRT
 <213> Homo sapiens

<400> 4782
 Ser Asp Leu Leu Phe Leu Asn Tyr Arg Gln Leu Phe Gly Glu Glu Asp
 1 5 10 15
 Ala Asp Gln Glu Val Ser Pro Asp Arg Ala Asp Pro Glu Ala Ala Trp
 20 25 30

4347

Glu Pro Thr Glu Ala Glu Ala Arg Ala Arg Ala Ser Asn Glu Asp Gly
 35 40 45
 Asp Ile Lys Arg Ile Ser Thr Lys Glu Trp Ala Lys Ser Thr Gly Tyr
 50 55 60
 Asp Pro Val Lys Leu Phe Thr Lys Leu Phe Lys Asp Asp Ile Arg Tyr
 65 70 75 80
 Leu Leu Thr Met Asp Lys Leu Trp Arg Lys Arg Lys Pro Pro Val Pro
 85 90 95
 Leu Asp Trp Ala Glu Val Gln Ser Gln Gly Glu Glu Thr Asn Ala Ser
 100 105 110
 Asp Gln Gln Asn Glu Pro Gln Leu Gly Leu Lys Asp Gln Gln Val Leu
 115 120 125
 Asp Val Lys Ser Tyr Ala Arg Leu Phe Ser Lys Ser Ile Glu Thr Leu
 130 135 140
 Arg Val His Leu Ala Glu Lys Gly Asp Gly Ala Glu Leu Ile Trp Asp
 145 150 155 160
 Lys Asp Asp Pro Ser Ala Met Asp Phe Val Thr Ser Ala Ala Asn Leu
 165 170 175
 Arg Met His Ile Phe Ser Met Asn Met Lys Ser Arg Phe Asp Ile Lys
 180 185 190
 Ser Met Ala Gly Asn Ile Ile Pro Ala Ile Ala Thr Thr Asn Ala Val
 195 200 205
 Ile Ala Gly Leu Ile Val Leu Glu Gly Leu Lys Ile Leu Ser Gly Lys
 210 215 220
 Ile Asp Gln Cys Arg Thr Ile Phe Leu Asn Lys Gln Pro Asn Pro Arg
 225 230 235 240
 Lys Lys Leu Leu Val Pro Cys Ala Leu Asp Pro Pro Asn Pro Asn Cys
 245 250 255
 Tyr Val Cys Ala Ser Lys Pro Glu Val Thr Val Arg Leu Asn Val His
 260 265 270
 Lys Val Thr Val Leu Thr Leu Gln Asp Lys Ile Val Lys Glu Lys Phe
 275 280 285
 Ala Met Val Ala Pro Asp Val Gln Ile Glu Asp Gly Lys Gly Thr Ile
 290 295 300

4348

Leu Ile Ser Ser Glu Glu Gly Glu Thr Glu Ala Asn Asn His Lys Lys
 305 310 315 320

Leu Ser Glu Phe Gly Ile Arg Asn Gly Ser Arg Leu Gln Ala Asp Asp
 325 330 335

Phe Leu Gln Asp Tyr Thr Leu Leu Ile Asn Ile Leu His Ser Glu Asp
 340 345 350

Leu Gly Lys Asp Val Glu Phe Glu Val Val Gly Asp Ala Pro Glu Lys
 355 360 365

Val Gly Pro Lys Gln Ala Glu Asp Ala Ala Lys Ser Ile Thr Asn Gly
 370 375 380

Ser Asp Asp Gly Ala Gln Pro Ser Thr Ser Thr Ala Gln Glu Gln Asp
 385 390 395 400

Asp Val Leu Ile Val Asp Ser Asp Glu Glu Asp Ser Ser Asn Asn Ala
 405 410 415

Asp Val Ser Glu Glu Glu Arg Ser Arg Lys Arg Lys Leu Asp Glu Lys
 420 425 430

Glu Asn Leu Ser Ala Lys Arg Ser Arg Ile Glu Gln Lys Glu Glu Leu
 435 440 445

Asp Asp Val Ile Ala Leu Asp
 450 455

<210> 4783

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4783

Lys His Arg Tyr Leu Val Leu Thr Gly Cys Ala Trp Leu Thr Gln Val
 1 5 10 15

His Leu Pro His Gly Lys Ser Ser Ser Lys Pro Leu His Asp Leu Trp
 20 25 30

Gly Ala Gly Ser Gln Phe Val Ala Cys Asp Leu Pro Gln Pro Gln Lys
 35 40 45

Ile Arg Asp His Glu Ala Pro Pro Pro Gly Ser Gly Asn Leu Ile
 50 55 60

4349

His Ile Ala Arg Ala Leu Pro Val Arg Leu Trp Met Leu Thr
 65 70 75

<210> 4784

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4784

Pro Ser Ser Pro Arg His Ile Ser Pro Arg Met Asn Ala Val Leu Ser
 1 5 10 15

Ala His Val Cys Val Glu Ala Ala Lys Val Gly Glu Leu Trp Ser Cys
 20 25 30

Pro Asp Pro Phe Gly Ile Ala Gly Pro Ser Ser His Trp Arg Ala Gly
 35 40 45

Val Gln Leu Thr Leu Gly Lys Glu Thr Ser Cys Leu Arg Val Ile Ser
 50 55 60

Cys Glu Cys Lys Ala Trp Gly Ser Gly Ser Leu Gly Gly Lys Glu Pro
 65 70 75 80

Val Arg Gly Leu Phe Pro Leu Ile Glu Leu Pro Arg Arg Ala Ser Ala
 85 90 95

Met Pro Glu Thr Gln Thr
 100

<210> 4785

<211> 87

<212> PRT

<213> Homo sapiens

<400> 4785

Glu Ile Pro Leu Leu Cys Phe Ala Ser Glu Ser Ser His Pro His Pro
 1 5 10 15

Gln Asn Cys Gly Ala Trp Trp Ala Leu Thr Ser Thr Pro Leu Leu Phe
 20 25 30

Ser Phe Ile Thr Phe Asp Leu Leu Lys Thr Ser Glu Arg Met Ser Val
 35 40 45

Lys Phe Phe Ser Pro Ser Ser Ser Leu Ser Ser Leu Lys Gly Arg Asp
 50 55 60

4350

Cys Ala Asn Thr Lys Gln Tyr Ser Phe Val Ser Ala Asn Ala Ser Val
 65 70 75 80

Asp Ile Pro Ile Gly Ile Lys
 85

<210> 4786

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4786

His Lys Glu Phe Xaa Arg Val Ser Gly Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 20 25 30

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 35 40 45

Val Val Leu Gln Arg Arg Asp Trp Xaa Asn Pro Gly Val Thr Gln Leu
 50 55 60

<210> 4787

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4787

Asp Thr Val Leu Lys Lys Ile Lys Asn Cys Lys Lys Met Lys Lys Lys
 1 5 10 15

4351

Val Leu Ser Ile Ile Cys Ile Ile Gly Ile His Met Ser Leu His Lys
 20 25 30

Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
 35 40 45

Val Val Cys Phe Ser Phe Ser Tyr
 50 55

<210> 4788

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4788

Thr Cys His Cys Leu Pro Pro Pro Pro Ala Arg Ala Met Thr Xaa Xaa
 1 5 10 15

Val Pro Arg Leu Ser Val Pro Ala Ala Leu Ala Leu Gly Ser Ala Ala
 20 25 30

Leu Gly Ala Ala Phe Ala Thr Gly Leu Phe Leu Gly Arg Arg Cys Pro
 35 40 45

Pro Trp Arg Gly Arg Arg Glu Gln Cys Leu Leu Pro Pro Glu Asp Xaa
 50 55 60

Arg Leu Trp Gln Tyr Leu Leu Ser Arg Ser Met Arg Glu His Pro Ala
 65 70 75 80

Leu Arg Ser Leu Arg Leu Leu Thr Leu Glu Gln Pro Gln Gly Asp Ser
 85 90 95

Met Met Thr Cys Glu Gln Ala Gln Leu Leu Ala Asn Leu Ala Arg Leu

4352

100	105	110
Ile Gln Ala Lys Lys Ala Leu Asp Leu Gly Thr Phe Thr Gly Tyr Ser		
115	120	125
Ala Leu Ala Leu Ala Leu Ala Leu Pro Ala Asp Gly Arg Val Val Thr		
130	135	140
Cys Glu Val Asp Ala Gln Pro Pro Glu Leu Gly Arg Pro Leu Trp Arg		
145	150	155
Gln Ala Glu Ala Glu His Lys Ile Asp Leu Arg Leu Lys Pro Ala Leu		
165	170	175
Glu Thr Leu Asp Glu Leu Leu Ala Ala Gly Glu Ala Gly Thr Phe Asp		
180	185	190
Val Ala Val Val Asp Ala Asp Lys Glu Asn Cys Ser Ala Tyr Tyr Glu		
195	200	205
Arg Cys Leu Gln Leu Leu Arg Pro Gly Gly Ile Leu Ala Val Leu Arg		
210	215	220
Val Leu Trp Arg Gly Lys Val Leu Gln Pro Pro Lys Gly Asp Val Ala		
225	230	235
Ala Glu Cys Val Arg Asn Leu Asn Glu Arg Ile Arg Arg Asp Val Arg		
245	250	255
Val Tyr Ile Ser Leu Leu Pro Leu Gly Asp Gly Leu Thr Leu Ala Phe		
260	265	270
Lys Ile		

<210> 4789

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4789

Tyr	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
1				5					10					15	

4353

Gly Ser Thr His Ala Ser Gly Ser Arg Phe Gln Ala Ser Ser Gln Leu
 20 25 30
 Arg Ala Gly Ser Trp Arg Pro Arg Pro Leu Pro Pro Val Val Pro Ala
 35 40 45
 Val Pro Asp Gly Ser Ala Met Ala Gln Pro Pro Pro Asp Val Glu Gly
 50 55 60
 Asp Asp Cys Leu Pro Ala Tyr Arg His Leu Phe Cys Pro Asp Leu Leu
 65 70 75 80
 Arg Asp Lys Val Ala Phe Ile Thr Gly Gly Gly Ser Gly Ile Gly Phe
 85 90 95
 Arg Ile Ala Glu Ile Phe Met Arg His Gly Cys His Thr Val Ile Ala
 100 105 110
 Ser Arg Ser Leu Pro Arg Val Leu Thr Ala Ala Arg Lys Leu Ala Gly
 115 120 125
 Ala Thr Gly Arg Arg Cys Leu Pro Leu Ser Met Asp Val Arg Xaa Pro
 130 135 140
 Pro Ala Val Met Ala Ala Val Asp Gln Ala Leu Lys Glu Phe Gly Arg
 145 150 155 160
 Ile Asp Ile Leu Ile Asn Cys Ala Ala Gly Asn Phe Leu Cys Pro Ala
 165 170 175

Gly

<210> 4790

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4790

Xaa His Leu His Pro Leu Pro Phe Gln Ser Phe Ala Ser Pro Pro His
 1 5 10 15

Leu Ala Ile Lys Leu His Glu Asp Phe Ser Ser Ser Gly Ser Ala Trp
 20 25 30

4354

Asn Leu Ser Tyr Ile Leu Pro Phe Pro Thr Cys Ser Leu Glu Cys Pro
35 40 45

Phe His Lys Tyr Ala Pro Thr Ala Gly Ser Ile Phe Phe Ser Phe Arg
50 55 60

His Leu
65

<210> 4791

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4791

Ala Ile Ser Xaa Val Arg Thr Ser Asn Ser Pro Ile Leu Ser Tyr Val
1 5 10 15

Xaa Ser Asn Lys Leu His His Leu Leu Thr Gly Phe Phe Ile Ser Val
20 25 30

Ile Ile Val Phe Ile Ser Arg Tyr Ser Ile Cys Leu Lys Asn Ile Cys
35 40 45

Met Ile Leu His Gly Phe Asn Ser Pro Asp Glu Tyr Xaa Ala Phe Asn
50 55 60

His Pro Ser Thr
65

<210> 4792

4355

<211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4792

Thr	Xaa	Phe	Phe	Leu	Met	Lys	Cys	Ile	Val	Phe	Pro	Leu	Ala	Leu	Lys
1				5					10					15	

Xaa	His	Ile	Trp	Cys	Gln	Ala	Val	Leu	Leu	Xaa	Leu	Thr	Gly	Glu	Trp
			20					25					30		

Gln	Leu	Cys	Leu	Leu	Ser	Ala	Ser	Pro	Ala	Val	Pro	Ala	Val	Ser	Gly
		35					40					45			

Thr	Cys	Ile	Met	Thr	Arg	Leu	His	Phe	Pro	Pro	Ile	Xaa	Xaa	Gln	Arg
	50					55					60				

Phe	Trp	Glu	Glu	Glu	Cys	Asp	Cys	Met	Ala	Arg	Ser	Leu	Gln	Pro	Gln
65					70					75				80	

Ser Ala Ala Cys

<210> 4793

4356

<211> 88
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4793
 Gly Ser Val Leu His His Pro His Ala Thr Pro Thr Thr His Arg Cys
 1 5 10 15
 Thr Ala Thr Val Thr Gly Ala Ser Cys Leu Arg Met Gly Leu Arg Val
 20 25 30
 Ile Asn Phe Phe Lys Gly Tyr Ile Xaa Ile Ala Tyr Xaa Ile Gln Ile
 35 40 45
 Lys Gly Pro Glu Phe Xaa Ala Asn Cys Thr Tyr Leu Phe Ala Asn Leu
 50 55 60
 Xaa His His Arg Lys Pro Lys Asp Ser Xaa Cys Gly Gln Ser Phe Thr
 65 70 75 80
 Leu Gln Ser Leu Lys Tyr Phe Phe
 85

<210> 4794

4357

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4794

Arg Ser Ser Leu Phe His Gln Ala Gly Val Gln Trp His Asp Leu Ser
 1 5 10 15

Ser Leu Gln Ser Pro Pro Pro Gln Phe Lys
 20 25

<210> 4795

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (310)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4795

Ile Asp Arg Glu Leu Ser Pro Glu Gly Pro Gly Lys Glu Lys Glu Leu
 1 5 10 15

Pro Gly Gln Thr Leu His Trp Gly Pro Glu Ala Thr Glu Ala Ala Gly
 20 25 30

Arg Gly Leu Gln Pro Leu Lys Leu Asp Tyr Arg Ala Leu Ala Ala Val
 35 40 45

Pro Ser Ala Gly Ser Val Gln Arg Val Pro Ser Gly Ala Ala Gly Gly
 50 55 60

Lys Met Ala Glu Ser Pro Cys Ser Pro Ser Gly Gln Gln Pro Pro Ser
 65 70 75 80

Pro Pro Ser Pro Asp Glu Leu Pro Ala Asn Val Lys Gln Ala Tyr Arg
 85 90 95

Ala Phe Ala Ala Val Pro Thr Ser His Pro Pro Glu Asp Ala Pro Ala
 100 105 110

Gln Pro Pro Thr Pro Gly Pro Ala Ala Ser Pro Glu Gln Leu Ser Phe
 115 120 125

Arg Glu Arg Gln Lys Tyr Phe Glu Leu Glu Val Arg Val Pro Gln Ala
 130 135 140

4358

Glu Gly Pro Pro Lys Arg Val Ser Leu Val Gly Ala Asp Asp Leu Arg
 145 150 155 160
 Lys Met Gln Glu Glu Glu Ala Arg Lys Leu Gln Gln Lys Arg Ala Gln
 165 170 175
 Met Leu Arg Glu Ala Ala Glu Ala Gly Ala Glu Ala Arg Leu Ala Leu
 180 185 190
 Asp Gly Glu Thr Leu Gly Glu Glu Glu Gln Glu Asp Glu Gln Pro Pro
 195 200 205
 Trp Ala Ser Pro Ser Pro Thr Ser Arg Gln Ser Pro Ala Ser Pro Pro
 210 215 220
 Pro Leu Gly Gly Gly Ala Pro Val Arg Thr Ala Lys Ala Glu Arg Arg
 225 230 235 240
 His Gln Glu Arg Leu Arg Val Gln Ser Pro Glu Pro Pro Ala Pro Glu
 245 250 255
 Arg Ala Leu Ser Pro Ala Glu Leu Arg Ala Leu Glu Ala Glu Lys Arg
 260 265 270
 Ala Leu Trp Arg Ala Ala Arg Met Lys Ser Leu Glu Gln Asp Ala Leu
 275 280 285
 Arg Ala Gln Met Val Leu Ser Arg Ser Gln Glu Gly Arg Gly Thr Arg
 290 295 300
 Gly Pro Leu Glu Arg Xaa Ala Glu Ala Pro Ser Pro Ala Pro Thr Pro
 305 310 315 320
 Ser Pro Thr Pro Val Glu Asp Leu Gly Pro Gln Thr Ser Thr Ser Pro
 325 330 335
 Gly Arg Leu Ser Pro Asp Phe Ala Glu Glu Leu Arg Ser Leu Glu Pro
 340 345 350
 Ser Pro Ser Pro Gly Pro Gln Glu Glu Asp Gly Glu Val Ala Leu Val
 355 360 365
 Leu Leu Gly Arg Pro Ser Pro Gly Ala Val Gly Pro Glu Asp Val Ala
 370 375 380
 Leu Cys Ser Ser Arg Arg Pro Val Arg Pro Gly Arg Arg Gly Leu Gly
 385 390 395 400
 Pro Val Pro Ser

4359

<210> 4796

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4796

Gly	Xaa	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu
1				5					10					15	

Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Val	Cys	Leu	Phe	Arg
			20					25					30		

Leu	Lys	Phe	Phe	Leu	Lys	Cys	Leu	Val	Ile	Pro	Gly	Phe	Leu	Leu	Ile
		35					40					45			

Ile	Lys	Glu	Lys	Asn	Ala	Asp	Ser	Leu	Asp	Pro	Gly	Arg	Ala	Ser	Leu
	50					55					60				

Pro	Asp	Cys	Arg	Leu	Ala	Ser	Gly	Ile	His	Gly	Phe	Pro	Lys	Cys	
65					70					75					

<210> 4797

<211> 97

<212> PRT

<213> Homo sapiens

<400> 4797

Pro	Pro	Pro	Ser	Leu	Ser	Phe	Ser	Ser	Ser	Val	Phe	Leu	Leu	Ser	Ser
1				5					10					15	

Phe	Phe	Pro	Ser	Pro	Ser	Ser	Ile	Ala	Thr	Phe	Ser	Pro	Thr	Arg	Thr
			20					25					30		

Gln	Ala	Tyr	Lys	Arg	Arg	Phe	Leu	Met	Leu	Leu	Cys	Leu	Leu	Thr	Pro
		35					40					45			

Leu	Phe	Ser	Cys	Phe	Gln	Gln	Val	Phe	Leu	Pro	Pro	Val	Pro	Gln	Leu
	50					55					60				

Leu	Leu	Leu	Leu	Arg	Arg	Ser	Asp	Leu	Pro	Leu	Met	Val	Ile	Pro	Ala
65					70					75					80

4360

Pro Leu Arg Pro Thr Ser Ala Lys Lys Glu Lys Val Lys Gln Gln Gln
85 90 95

Gln

<210> 4798

$\langle 211 \rangle$ 90

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4798

Ala Ser Tyr Tyr Met Xaa Leu His Phe Pro Gln Trp Phe Val His Ser
1 5 10 15

Ser Ala Leu Gly Leu Val Leu Ala Pro Pro Phe Ser Ser Pro Gly Thr
20 25 30

Asp Pro Thr Phe Pro Cys Ile Tyr Cys Arg Leu Leu Asn Met Ile Met
35 40 45

Thr Arg Leu Ala Phe Ser Phe Ile Thr Cys Leu Cys Pro Asn Leu Lys
50 55 60

Glu Val Cys Leu Ile Leu Pro Glu Lys Asn Cys Asn Ser Arg His Ala
65 70 75 80

Gly Phe Val Gly Pro Ala Lys Leu Arg Gln
85 90

<210> 4799

<211> 52

<212> PRT

<213> Homo sapiens

<400> 4799

His Cys Tyr His Ser His Ala Lys His Trp Leu His Thr Cys Ser Leu
1 5 10 15

Phe Val Ile Asn Ile Lys Arg Leu Asp Leu Lys Pro Ser Ile Asn Glu
20 25 30

4361

Arg Pro Phe Ile Trp His Ser Trp Asn Lys Thr Leu His Arg Tyr Gln
35 40 45

Pro Leu His Ser
50

<210> 4800

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4800

Phe Val Gly Leu Thr Leu Pro Phe Ser Phe Ser Leu Glu Cys Leu Leu
1 5 10 15

Gly Tyr Ala Leu Val Gly Leu Met Ser Phe Leu Gly Leu Gly Gly Val
20 25 30

Cys Val Trp Leu Val Trp Gly Thr Phe Arg Gly Ser Ser Cys Thr Phe
35 40 45

Pro Leu Leu Ser Val Cys Ser Ser Leu His Leu Leu Phe Val Cys Val
50 55 60

His Phe Phe Ser Glu Gln Ser Phe Ser Leu Ala Thr Leu Ser Ser Leu
65 70 75 80

Thr Val Phe Leu Phe Ser Ser Ser Leu Arg
85 90

<210> 4801

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4801

Leu Lys Leu Lys Arg Arg Gln Gly Ser Ile Gln Ala Glu Pro Val Leu
1 5 10 15

Val Gln Thr Lys Asn Leu Thr Gly Thr Met Glu Gly Ser Ser Ser Pro
20 25 30

Leu Leu Thr Phe Tyr Val Met Glu Arg Leu Glu Leu Ile Lys Val Leu
35 40 45

Pro Phe Phe Tyr Ser Pro Glu Tyr Gln Arg Gln Leu Lys Ser Ala Thr
50 55 60

4362

Asn Asp Leu Pro Val Ser Cys Phe Ile Phe Val Ile Asp Phe
65 70 75

<210> 4802

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4802

Val Pro Ala Thr Thr Pro Gly Gln Tyr Leu Tyr Phe Leu Trp Arg Arg
1 5 10 15

Gly Phe Ala Met Leu Ala Arg Leu Val Ser Asn Tyr Trp Ala Gln Val
20 25 30

Ile His Pro Pro Gln Pro Pro Lys Val Leu Arg Leu Gln Ala
35 40 45

<210> 4803

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4803

Trp Val Pro Leu Leu Phe Ala Phe Ser Phe Ser Glu Asn Val Cys Val
1 5 10 15

Leu Pro Leu Phe Trp Leu His Leu Gln Asn Ile Ser Phe Val Pro Met
20 25 30

Tyr Met Cys Lys His Ala Ile Ala Cys Val Val Gly Val Leu Tyr Phe
35 40 45

Val Trp Glu Lys Asn Tyr Gln Asn Glu Glu Glu Asn Phe Pro Tyr Leu
50 55 60

Cys Thr Arg Phe Leu Cys Phe Phe Phe Glu Phe Ser Gly Val Asp Ile
65 70 75 80

Asn Leu Ile Pro Ser Trp
85

<210> 4804

<211> 71

4363

<212> PRT

<213> Homo sapiens

<400> 4804

Leu Trp Gln Asn Leu Phe Trp His Asn His Ile Cys Ser Leu Tyr Lys
 1 5 10 15

Ile Ser Phe Leu Cys Phe Arg Lys Asn Val Ser Tyr Tyr Ser Glu Ser
 20 25 30

Cys Asp Ser Asp Ser Ser Trp Phe Gly Ala Gln Lys Phe Leu Asn Met
 35 40 45

Ser Leu Leu Leu Val Lys His Arg Ile Cys Phe Leu Gln Lys Phe Ile
 50 55 60

Phe Asn Glu Glu Tyr Leu Ser
 65 70

<210> 4805

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4805

Ala Leu His Thr Cys Trp Tyr Leu Leu Ala Asn Cys Ala Ala Leu Thr
 1 5 10 15

Cys His Leu Ser Leu Cys Pro Asn Thr Thr Thr Val Ala Thr Val Pro
 20 25 30

Thr Thr Ile Pro Thr Val Thr Leu Val Ile Ala Tyr Ser Ala Thr Asn
 35 40 45

4364

Ser Pro Cys Gly Ser Thr Ser Met Leu Gly Leu Leu Ala Leu Pro Ser
 50 55 60

Met Ser Thr Tyr Met Ala Ala Ser Ala Tyr Thr Thr Xaa Leu Leu Thr
 65 70 75 80

Phe Thr Leu Val Gly Thr Leu Asn Leu Ala Ile Val Arg Leu Leu Ser
 85 90 95

Ser Asn Arg Leu Thr Cys Asn Asn Xaa Xaa
 100 105

<210> 4806

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4806

Trp Asp Cys Arg His Pro Pro Ser Cys Pro Ala Lys Phe Cys Thr Phe
 1 5 10 15

Val Glu Met Glu Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu
 20 25 30

Thr Ser Gly Asp Leu Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr
 35 40 45

Gly Val Ser His His Ala Trp Thr Xaa Cys Cys Cys Cys Phe
 50 55 60

<210> 4807

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4365

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4807

Met	Lys	Glu	Asp	Leu	Phe	Ser	Leu	Arg	Ser	Val	Cys	Gly	Val	Ser	Cys
1				5				10						15	

Pro	Gly	Leu	Leu	Ser	Glu	Val	Trp	Pro	Gln	Gly	Leu	Arg	Glu	Val	Ala
		20					25						30		

Arg	Thr	Pro	Gln	Gly	Gly	Pro	His	His	Arg	Gly	Cys	Cys	Pro	Thr	Gly
		35				40						45			

Ser	Ser	Pro	Xaa	Ser	Gly	Thr	Leu	Pro	Xaa	Ser	Leu	Trp	Glu	Gly	Glu
	50					55					60				

Met	Ala	Thr	Gly	Leu	Glu	Asn	Arg	His	Pro	Val
65					70					75

<210> 4808

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4808

Gly	Leu	Val	Gly	Pro	Leu	Leu	Val	Cys	Arg	Ala	Gly	Ala	Leu	Gly	Ala
1				5				10					15		

Asp	Gly	Lys	Gln	Lys	Gly	Val	Asp	Lys	Glu	Phe	Phe	Leu	Leu	Phe	Thr
		20					25						30		

Val	Leu	Asp	Glu	Asn	Lys	Ser	Trp	Tyr	Ser	Asn	Ala	Asn	Gln	Ala	Ala
		35					40					45			

4366

Ala Met Leu Asp Phe Arg Leu Leu Ser Glu Asp Ile Glu Gly Phe Gln
 50 55 60
 Asp Ser Asn Arg Met His Ala Ile Asn Gly Phe Leu Phe Ser Asn Leu
 65 70 75 80
 Pro Arg Leu Asp Met Cys Lys Gly Asp Thr Val Ala Trp His Leu Leu
 85 90 95
 Gly Leu Gly Thr Glu Thr Asp Val His Gly Val Met Phe Gln Gly Asn
 100 105 110
 Thr Val Gln Leu Gln Gly Met Arg Lys Gly Ala Ala Met Leu Phe Pro
 115 120 125
 His Thr Phe Val Met Ala Ile Met Gln Pro Asp Asn Leu Gly Thr Phe
 130 135 140
 Glu Ile Tyr Cys Gln Ala Gly Lys Pro Ser Arg Thr Xaa Met Lys Ala
 145 150 155 160
 Ile Tyr Asn Gly Ser Asn Xaa Leu Gly Thr Lys Pro Pro Xaa Ala Thr
 165 170 175
 Leu Pro Thr Cys Lys Asn Leu Leu Phe His Gly
 180 185

<210> 4809

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4809

Ala Ile Pro Leu Thr Asn Asp Gly Val Pro Ser Glu Ser Ser Ala Gly
 1 5 10 15
 Arg Leu Leu Cys Val Gly Arg Leu Gly Leu Gly Arg Gly Leu Ser Pro
 20 25 30
 Asn Leu Gly Pro Ala Glu Gln Glu Gln Asn His Tyr Leu Ala Gln Leu
 35 40 45
 Phe Gly Leu Tyr Gly Glu Asn Gly Thr Leu Thr Ala Gly Gly Leu Ala
 50 55 60

4367

Arg Leu Leu His Ser Leu Gly Leu Gly Arg Val Gln Gly Leu Arg Leu
 65 70 75 80

Gly Gln His Gly Pro Leu Thr Gly Arg Ala Ala Ser Pro Ala Ala Asp
 85 90 95

Asn Ser Thr His Arg Pro Gln Asn Pro Glu Leu Ser Val Asp Val Trp
 100 105 110

Ala Gly Met Pro Leu Gly Pro Ser Gly Trp Gly Asp Leu Glu Xaa
 115 120 125

<210> 4810

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4810

Ala Ser Met Asp Pro Asp Ser Asp Gln Pro Leu Asn Ser Leu Asp Val
 1 5 10 15

Lys Pro Leu Arg Lys Pro Arg Ile Pro Ile Ile Ile Ala Leu Leu Ser
 20 25 30

Leu Ala Ser Ile Ile Ile Val Val Val Leu Ile Lys Val Ile Leu Asp
 35 40 45

Lys Tyr Tyr Phe Leu Cys Gly Gln Pro Leu His Phe Ile Pro Arg Lys
 50 55 60

Gln Leu Cys Asp Gly Glu Leu Asp Cys Pro Leu Gly Glu Asp Glu Glu
 65 70 75 80

4368

His Cys Val Lys Ser Phe Pro Glu Gly Pro Xaa Val Ala Val Arg Leu
 85 90 95

Ser Lys Asp Arg Ser Thr Leu Gln Val Leu Asp Ser Ala Thr Gly Asn
 100 105 110

Trp Phe Ser Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala Glu Thr
 115 120 125

Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg Ala Val
 130 135 140

Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr Glu Asn
 145 150 155 160

Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu Ser Gly
 165 170 175

Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Lys Ser Leu Lys Thr
 180 185 190

Pro Arg Val Val Xaa Gly Glu Glu Ala Ser Val Asp Ser Trp Pro Trp
 195 200 205

Gln Val Ser Ile Gln Tyr Xaa Lys
 210 215

<210> 4811

<211> 139

<212> PRT

<213> Homo sapiens

<400> 4811

Ser Ser Asn Thr Phe Arg Leu Gln Val Gln Thr Gln Glu Ser Lys Ala
 1 5 10 15

Gln Lys Glu Leu Glu Arg Gln Leu Ile Met Gln Ser Glu Met Arg Glu
 20 25 30

Arg Gln Met Ala Met Gln Ile Ala Trp Ser Arg Glu Phe Leu Lys Tyr
 35 40 45

Phe Gly Thr Phe Phe Gly Leu Ala Ala Ile Ser Leu Thr Ala Gly Ala
 50 55 60

Ile Lys Lys Lys Lys Pro Ala Phe Leu Val Pro Ile Val Pro Leu Ser
 65 70 75 80

Phe Ile Leu Thr Tyr Gln Tyr Asp Leu Gly Tyr Gly Thr Leu Leu Glu

4369

	85		90		95
Arg Met Lys Gly Glu Ala Glu Asp Ile Leu Glu Thr Glu Lys Ser Lys					
	100		105		110
Leu Gln Leu Pro Arg Gly Met Ile Thr Phe Glu Ser Ile Glu Lys Ala					
	115		120		125
Arg Lys Glu Gln Ser Arg Phe Phe Ile Asp Lys					
	130		135		

<210> 4812

<211> 121

<212> PRT

<213> Homo sapiens

<400> 4812

Gly Arg Phe Ala Pro Ser Pro Pro Pro Ala Leu Pro Gly Asn Pro Leu															
1				5					10						15
Lys Met Arg Pro Pro Val Leu Arg Glu Pro Gly Ala Pro Ala Ser Ala															
			20					25						30	
Pro Ala Gln Pro Leu Pro Gly Ala Asp Pro Gly Trp Asp Phe Gly Gly															
			35				40						45		
Pro Ser Leu Ser Pro Leu Arg Glu Asn Arg Pro Gly Arg Cys Gly Glu															
			50				55				60				
Gly Pro Arg Ala Ile Leu Ala Gly Gly Ala Gly Arg Arg Thr Arg Ala															
65						70				75					80
Arg Arg Pro Ser Pro Ala Arg Thr Ser Ser Arg Gln Ser Ser Gly Lys															
						85			90					95	
Gly Ser Leu Phe Phe Ser Leu Gly Lys Ile Lys Ser Pro Arg Glu Asn															
						100			105					110	
Lys Ala Gly Lys Gly Ala Pro Phe Leu															
						115			120						

<210> 4813

<211> 364

<212> PRT

<213> Homo sapiens

<220>

4370

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4813

Asp	Gly	Gly	Xaa	Xaa	Thr	Gln	Trp	Ala	Xaa	Glu	Phe	Pro	Phe	Asp	Val
1				5					10					15	

Asp	Ala	Leu	Phe	Pro	Glu	Arg	Ile	Thr	Val	Leu	Asp	Gln	His	Leu	Arg
		20						25					30		

Pro	Pro	Ala	Arg	Arg	Pro	Gly	Thr	Thr	Thr	Pro	Ala	Arg	Val	Asp	Leu
		35					40					45			

Gln	Gln	Gln	Ile	Met	Thr	Ile	Ile	Asp	Glu	Leu	Gly	Lys	Ala	Ser	Ala
	50					55					60				

Lys	Ala	Gln	Asn	Leu	Ser	Ala	Pro	Ile	Thr	Ser	Ala	Ser	Arg	Met	Gln
65					70					75					80

Ser	Asn	Arg	His	Val	Val	Tyr	Ile	Leu	Lys	Asp	Ser	Ser	Ala	Arg	Pro
				85					90					95	

Ala	Gly	Lys	Gly	Ala	Ile	Ile	Gly	Phe	Ile	Lys	Val	Gly	Tyr	Lys	Lys
			100					105					110		

Leu	Phe	Val	Leu	Asp	Asp	Arg	Glu	Ala	His	Asn	Glu	Val	Glu	Pro	Leu
			115				120					125			

Cys	Ile	Leu	Asp	Phe	Tyr	Ile	His	Glu	Ser	Val	Gln	Arg	His	Gly	His
	130					135					140				

Gly	Arg	Glu	Leu	Phe	Gln	Tyr	Met	Leu	Gln	Lys	Glu	Arg	Val	Glu	Pro
145					150					155				160	

His	Gln	Leu	Ala	Ile	Asp	Arg	Pro	Ser	Gln	Lys	Leu	Leu	Lys	Phe	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4371

	165		170		175
Asn Lys His Tyr Asn Leu Glu Thr Thr Val Pro Gln Val Asn Asn Phe					
	180		185		190
Val Ile Phe Glu Gly Phe Phe Ala His Gln His Arg Pro Pro Ala Pro					
	195		200		205
Ser Leu Arg Ala Thr Arg His Ser Arg Ala Ala Ala Val Asp Pro Thr					
	210		215		220
Pro Ala Ala Pro Ala Arg Lys Leu Pro Pro Lys Arg Ala Glu Gly Asp					
	225		230		235
Ile Lys Pro Tyr Ser Ser Ser Asp Arg Xaa Phe Leu Lys Val Ala Val					
	245		250		255
Glu Pro Pro Trp Pro Leu Asn Arg Ala Pro Arg Arg Ala Thr Pro Pro					
	260		265		270
Ala His Pro Pro Pro Arg Ser Ser Ser Leu Gly Asn Ser Pro Glu Arg					
	275		280		285
Gly Pro Leu Arg Pro Phe Val Pro Glu Gln Glu Leu Leu Arg Ser Leu					
	290		295		300
Arg Leu Cys Pro Pro His Pro Thr Ala Arg Leu Leu Leu Ala Ala Asp					
	305		310		315
Pro Gly Gly Ser Pro Ala Gln Arg Arg Arg Thr Ser Ser Leu Pro Arg					
	325		330		335
Ser Glu Glu Ser Arg Tyr Leu Thr Ala Tyr Pro Ser Pro Cys Pro Gly					
	340		345		350
Gly Asp Leu Gly Val Gly Gln Gly Asn Pro Phe Ser					
	355		360		

<210> 4814

<211> 145

<212> PRT

<213> Homo sapiens

<400> 4814

Asn Thr Ala Lys Phe Thr Asn Cys Thr Cys Cys Ile Val Lys Pro His					
1		5		10	15
Ala Val Ser Glu Gly Leu Leu Gly Lys Ile Leu Met Ala Ile Arg Asp					
	20		25		30

4372

Ala Gly Phe Glu Ile Ser Ala Met Gln Met Phe Asn Met Asp Arg Val
 35 40 45
 Asn Val Glu Glu Phe Tyr Glu Val Tyr Lys Gly Val Val Thr Glu Tyr
 50 55 60
 His Asp Met Val Thr Glu Met Tyr Ser Gly Pro Cys Val Ala Met Glu
 65 70 75 80
 Ile Gln Gln Asn Asn Ala Thr Lys Thr Phe Arg Glu Phe Cys Gly Pro
 85 90 95
 Ala Asp Pro Glu Ile Ala Arg His Leu Arg Pro Gly Thr Leu Arg Ala
 100 105 110
 Ile Phe Gly Lys Thr Lys Ile Gln Asn Ala Val His Cys Thr Asp Leu
 115 120 125
 Pro Glu Asp Gly Leu Leu Glu Val Gln Tyr Phe Phe Lys Ile Leu Asp
 130 135 140
 Asn
 145

<210> 4815

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4815

Gln Asn Val Ile Met Phe Val Gly Leu Gln Gly Ser Gly Xaa Thr Thr
 1 5 10 15
 Thr Cys Ser Lys Leu Ala Tyr Tyr Tyr Gln Arg Lys Gly Trp Lys Thr
 20 25 30
 Cys Leu Ile Cys Ala Asp Thr Phe Arg Ala Gly Ala Phe Asp Gln Leu
 35 40 45
 Lys Gln Asn Ala Thr Lys Ala Arg Ile Pro Phe Tyr Gly Ser Tyr Thr
 50 55 60
 Glu Met Asp Pro Val Ile Ile Ala Ser Glu Gly Val Glu Lys Phe Lys

4373

65		70		75		80									
Asn	Glu	Asn	Phe	Glu	Ile	Ile	Ile	Val	Asp	Thr	Ser	Gly	Arg	His	Lys
			85						90					95	
Gln	Glu	Asp	Ser	Leu	Phe	Glu	Glu	Met	Leu	Gln	Val	Ala	Asn	Ala	Ile
			100					105					110		
Gln	Pro	Asp	Asn	Ile	Val	Tyr	Val	Met	Asp	Ala	Ser	Ile	Gly	Gln	Ala
			115					120					125		
Cys	Glu	Ala	Gln	Ala	Lys	Ala	Phe	Lys	Asp	Lys	Val	Asp	Val	Ala	Ser
			130					135					140		
Val	Ile	Val	Thr	Lys	Leu	Asp	Gly	His	Ala	Lys	Gly	Gly	Gly	Ala	Leu
145					150					155					160
Ser	Ala	Val	Ala	Ala	Thr	Lys	Ser	Pro	Ile	Ile	Phe	Ile	Gly	Thr	Gly
					165					170				175	
Glu	His	Ile	Asp	Asp	Phe	Glu	Pro	Phe	Lys	Thr	Gln	Pro	Phe	Ile	Ser
			180						185					190	
Lys	Leu	Leu	Gly	Met	Gly	Asp	Ile	Glu	Gly	Leu	Ile	Asp	Lys	Val	Asn
			195					200					205		
Glu	Leu	Lys	Leu	Asp	Asp	Asn	Glu	Ala	Leu	Ile	Glu	Lys	Leu	Lys	His
			210					215				220			
Gly	Gln	Phe	Thr	Leu	Arg	Asp	Met	Tyr	Glu	Gln	Phe	Gln	Asn	Ile	Met
225					230					235					240
Lys	Met	Gly	Pro	Phe	Ser	Gln	Ile	Leu	Gly	Met	Ile	Pro	Gly	Phe	Gly
					245					250				255	
Thr	Asp	Phe	Met	Ser	Lys	Gly	Asn	Glu	Gln	Glu	Ser	Met	Ala	Arg	Leu
			260						265					270	
Lys	Lys	Leu	Met	Thr	Ile	Met	Asp	Ser	Met	Asn	Asp	Gln	Glu	Leu	Asp
			275					280					285		
Ser	Thr	Asp	Gly	Ala	Lys	Val	Phe	Ser	Lys	Gln	Pro	Gly	Arg	Ile	Gln
			290					295				300			
Arg	Val	Ala	Arg	Gly	Ser	Gly	Val	Ser	Thr	Arg	Asp	Val	Gln	Glu	Leu
305					310					315					320
Leu	Thr	Gln	Tyr	Thr	Lys	Phe	Ala	Gln	Met	Val	Lys	Lys	Met	Gly	Gly
					325					330				335	
Ile	Lys	Gly	Leu	Phe	Lys	Gly	Gly	Asp	Met	Ser	Lys	Asn	Val	Ser	Gln

4374

340							345					350				
Ser	Gln	Met	Ala	Lys	Leu	Asn	Gln	Gln	Met	Ala	Lys	Met	Met	Asp	Pro	
355							360					365				
Arg	Val	Leu	His	His	Met	Gly	Gly	Met	Ala	Gly	Leu	Gln	Ser	Met	Met	
370							375					380				
Arg	Gln	Phe	Gln	Gln	Gly	Ala	Ala	Gly	Asn	Met	Lys	Gly	Met	Met	Gly	
385							390					395				400
Phe		Asn	Asn	Met												

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<210> 4816
<211> 66
<212> PRT
<213> Homo sapiens
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<400> 4816
Ser Leu Ile Ser Leu Tyr Phe Ser Phe Phe Val Cys Glu Tyr Tyr Pro
  1                      5                        10                15

Tyr Thr Thr Thr Pro Lys Thr Ser Glu Leu Phe Ala Leu Phe Phe His
      20                    25                  30

Thr Thr Trp Gly Arg Glu Pro Trp Glu Tyr Ala His Gly Ile Ile Ile
     35                   40                 45

His Ser Val Val Trp Lys Lys Lys Met Leu Thr Ser Ala Leu Glu Gly
    50                     55                 60

Ser Tyr
   65
```

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<210> 4817
<211> 90
<212> PRT
<213> Homo sapiens
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<400> 4817
His Ala Ser Ala Asp Ala Trp Ala Asp Ala Trp Glu Lys Ser Cys Glu
1 5 10 15
Glu Ile Asp Leu Asp Lys His Lys Ser Ile Gln Arg Lys Lys Thr Glu
20 25 30

4375

Val Glu Ile Glu Thr Val His Val Ser Thr Glu Lys Leu Lys Asn Arg
 35 40 45

Lys Glu Lys Lys Ser Arg Asp Val Val Ser Lys Lys Glu Glu Arg Lys
 50 55 60

Arg Thr Lys Lys Lys Lys Glu Gln Gly Gln Glu Arg Thr Glu Glu Glu
 65 70 75 80

Met Leu Trp Asp Gln Ser Ile Leu Gly Phe
 85 90

<210> 4818

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4818

Gly Gly Phe Leu His Pro Gln Pro Glu Arg Arg Pro Xaa Gly Pro Ala
 1 5 10 15

Pro Arg Lys Pro Pro Val Ala Arg Pro Arg Ser Gly Leu Gly Ser Pro
 20 25 30

Gly Lys Arg Phe Gly Arg Ala His Gly Asp Cys Val Ser Gly Ala Gln
 35 40 45

Leu Cys Gly Cys Pro Ser Met Asp Asp Tyr Met Val Leu Arg Met Ile
 50 55 60

4376

Gly Glu Gly Ser Phe Gly Arg Ala Leu Leu Val Gln His Glu Ser Ser
 65 70 75 80

Asn Gln Met Phe Ala Met Lys Glu Ile Arg Leu Pro Lys Ser Phe Ser
 85 90 95

Asn Thr Gln Asn Ser Arg Lys Glu Ala Val Leu Leu Ala Lys Met Lys
 100 105 110

His Pro Asn Ile Xaa Ala Phe Lys Glu Ser Phe Glu Ala Xaa Gly His
 115 120 125

Leu Tyr Ile Val Met Glu Tyr Cys Asp Gly Xaa Asp Leu Met Gln Lys
 130 135 140

Ile Lys Gln Gln Lys Arg Lys Val Ile Ser
 145 150

<210> 4819

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4819

Arg Leu His Arg Tyr Pro Glu Ala Met Ala Ser Lys Gly Leu Gln Asp
 1 5 10 15

Leu Lys Gln Gln Val Glu Gly Thr Ala Gln Glu Ala Ala Met Asp Gln
 20 25 30

Leu Ala Lys Thr Thr Gln Glu Thr Ile Asp Lys Thr Ala Asn Gln Ala
 35 40 45

Ser Asp Thr Phe Ser Gly Ile Gly Lys Lys Phe Gly Leu Leu Lys
 50 55 60

<210> 4820

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

4377

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4820

Val	Lys	Lys	Asp	Thr	Leu	Thr	Glu	Glu	Glu	Thr	Gln	Phe	Tyr	Ile	Ala
1				5					10					15	

Glu	Thr	Val	Leu	Ala	Ile	Asp	Ser	Ile	His	Gln	Leu	Gly	Phe	Ile	His
			20					25					30		

Arg	Asp	Ile	Lys	Pro	Asp	Asn	Leu	Leu	Leu	Asp	Ser	Lys	Gly	His	Val
		35					40					45			

Lys	Leu	Ser	Asp	Phe	Gly	Leu	Cys	Thr	Gly	Leu	Lys	Lys	Ala	His	Arg
	50					55					60				

Thr	Glu	Phe	Tyr	Arg	Asn	Leu	Asn	His	Ser	Leu	Pro	Ser	Asp	Phe	Thr
65					70					75					80

Phe	Gln	Asn	Met	Asn	Ser	Lys	Arg	Lys	Ala	Glu	Thr	Trp	Lys	Arg	Asn
				85					90					95	

Arg	Arg	Gln	Leu	Ala	Phe	Ser	Thr	Val	Gly	Thr	Pro	Asp	Tyr	Ile	Ala
		100						105					110		

Pro	Glu	Val	Phe	Met	Gln	Thr	Gly	Tyr	Asn	Lys	Leu	Cys	Asp	Trp	Trp
	115						120					125			

Ser	Leu	Gly	Val	Ile	Met	Tyr	Glu	Met	Leu	Ile	Gly	Tyr	Pro	Pro	Phe
	130					135					140				

Cys	Xaa	Glu	Thr	Pro	Gln	Glu	Thr	Tyr	Lys	Lys	Val	Met	Asn	Trp	Lys
145					150					155					160

Glu	Thr	Leu	Thr	Phe	Pro	Pro	Glu	Val	Pro	Ile	Ser	Glu	Lys	Ala	Lys
				165					170					175	

Asp	Leu	Ile	Leu	Arg	Phe	Cys	Cys	Glu	Trp	Glu	His	Arg	Ile	Gly	Ala
		180						185					190		

Pro	Gly	Val	Glu	Glu	Ile	Lys	Ser	Asn	Ser	Phe	Phe	Glu	Gly	Val	Asp
		195					200					205			

Trp	Glu	His	Ile	Arg	Glu	Arg	Pro	Ala	Ala	Ile	Ser	Ile	Glu	Ile	Lys
	210					215					220				

Ser	Xaa	Asp	Asp	Thr	Ser	Asn	Phe	Asp	Glu	Phe	Pro	Glu	Ser	Asp	Ile
225					230					235					240

4378

Leu Lys Pro Thr Asp Ala Phe Leu Gly Asp Thr Pro Pro His Pro Lys
 245 250 255

Gly Ser Pro Ala Thr
 260

<210> 4821

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4821

Phe Arg Ala Leu His Arg Gly Ala Ala Leu Asp Leu Ser Pro Leu His
 1 5 10 15

Arg Ser Pro His Pro Ser Arg Gln Ala Ile Phe Cys Trp Met Ser Phe
 20 25 30

Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu Val Gln Gln
 35 40 45

Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu Val Leu Met
 50 55 60

Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser Leu Glu Ser
 65 70 75 80

Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile Leu Gln Asn
 85 90 95

Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly His Pro Gln
 100 105 110

Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu Leu Phe Pro
 115 120 125

Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg Val Leu Leu
 130 135 140

Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp Leu Ser Leu
 145 150 155 160

Leu Pro Pro Arg Ala Ala Leu Ser Thr Pro Ala Thr Thr Arg Thr Glu
 165 170 175

Thr Ser

4379

<210> 4822

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4822

Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro
1				5					10					15	

Pro	Ile	Phe	Pro	Val	Asp	Asn	Ala	Ile	Asp	Asn	Xaa	Lys	Glu	Ile	Gln
			20					25					30		

Val	Ala	Leu	Xaa	Ile	Leu	Met	Ala	Ala	Tyr	Ala	Met	Ala	Glu	Ala	Phe
			35				40				45				

Met	Ser	Thr	Gly	Val	Gly	Ala	Ser	Leu	Ile	Leu	Ile	Ala	Leu	Lys	Val
	50					55				60					

Gly	Ile	Thr	Ala	Lys	Thr	Val	Ala	Val	Ile	Gly	Ala	Ile	Val	Thr	Ser
65					70					75					80

Ile	Leu	Ser	Ile	Ala	Thr	Gly	Thr	Ser	Trp	Gly	Thr	Phe	Ala	Ala	Cys
				85					90					95	

Ala	Pro	Ile	Phe	Leu	Trp	Leu	Asn	His	Ile	Val	Gly	Gly	Asn	Ile	Leu
			100				105						110		

Leu	Thr	Thr	Ala	Ala	Ile	Ala	Gly	Gly	Ala	Cys	Phe	Gly	Asp	Asn	Ile
		115					120					125			

Gly	Leu	Ile	Ser	Asp	Thr	Thr	Ile	Val	Ser	Ser	Gly	Ile	Gln	Lys	Val
	130					135					140				

Glu	Val	Val	Arg	Arg	Ile	Arg	His	Gln	Gly	Val	Trp	Ser	Ala	Leu	Val
145					150					155					160

Leu	Leu	Ser	Gly	Ile	Ile	Val	Phe	Ala	Ile	Val	Gly	Phe	Thr	Trp	Ile
				165					170					175	

Tyr Pro

4380

<210> 4823

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4823

Leu Cys Cys Phe Lys Tyr Leu Gly Asp Cys Phe Ile Ile Ser Ser Thr
1 5 10 15

Lys Lys Thr Phe Asn Phe Ala Ile Glu Thr Val Glu Leu Cys His Ala
20 25 30

Phe Ile Arg Ser Ser Ala Leu Cys
35 40

<210> 4824

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4824

Thr Gln Leu Arg Glu Cys Leu Phe Arg Ala Trp Ser Cys Tyr Leu Tyr
1 5 10 15

Leu Lys Ser Ser His Pro Val Pro Cys Phe Arg Ala Gly Leu Gln Phe
20 25 30

His Cys Ser Phe Leu Lys Leu Leu Cys Pro Gln Leu Thr Leu Phe Xaa
35 40 45

Asn Val Val Phe His Trp Thr Gly Leu Leu Phe Leu Val Ser His Ala
50 55 60

Phe Gly Phe Tyr Xaa
65

4381

<210> 4825

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4825

Val	Ser	Arg	Pro	Ala	Gly	Lys	Asp	Met	Met	Arg	Lys	Leu	Glu	Lys	His
1				5					10					15	

Met	Thr	Ala	Xaa	Lys	Gly	Pro	Met	Ile	Val	Leu	Val	Leu	Asp	Glu	Met
			20				25						30		

Asp	Gln	Leu	Asp	Ser	Lys	Xaa	Gln	Asp	Val	Leu	Tyr	Thr	Leu	Phe	Glu
	35						40					45			

Trp	Pro	Trp	Leu	Ser	Asn	Ser	His	Leu	Val	Leu	Ile	Gly	Ile	Ala	Asn
	50					55					60				

Thr	Leu	Asp	Leu	Thr	Asp	Arg	Ile	Leu	Pro	Arg	Leu	Gln	Ala	Arg	Glu
65					70					75					80

Lys	Cys	Lys	Pro	Gln	Leu	Leu	Asn	Phe	Pro	Pro	Tyr	Thr	Arg	Asn	Gln
				85					90					95	

Ile	Val	Thr	Ile	Leu	Gln	Asp	Arg	Leu	Asn	Gln	Val	Ser	Arg	Asp	Gln
			100					105					110		

Val	Leu	Asp	Asn	Ala	Ala	Val	Gln	Phe	Cys	Ala	Arg	Lys	Val	Ser	Ala
		115					120					125			

Val	Ser	Gly	Asp	Val	Arg	Lys	Ala	Leu	Asp	Val	Cys	Arg	Arg	Ala	Ile
	130					135					140				

Glu	Ile	Val	Glu	Ser	Asp	Val	Lys	Ser	Gln	Thr	Ile	Leu	Lys	Pro	Leu
145					150					155					160

Ser	Glu	Cys	Lys	Ser	Pro	Ser	Glu	Pro	Leu	Ile	Pro	Lys	Arg	Val	Gly
				165					170					175	

4382

Leu Ile His Ile Ser Gln Val Ile Ser Glu Val Asp Gly Asn Arg Met
 180 185 190

Thr Leu Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln Lys
 195 200 205

Ile Leu Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile Lys
 210 215 220

Glu Val Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys Arg
 225 230 235 240

Lys Gln Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Ser Leu Ser
 245 250 255

Gly Leu Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys Glu
 260 265 270

Thr Arg Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile Glu
 275 280 285

His Ala Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr Gly
 290 295 300

Leu Pro
 305

<210> 4826

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4826

Ala Ala Ala Gly Pro Gly Ala Cys Trp Ala Ser Pro Pro Arg Arg Leu
 1 5 10 15

His Ala Pro Thr Ala Xaa Ser Thr Xaa Ser Phe Gln Ala Arg Gln Leu
 20 25 30

4383

Leu Glu Lys Glu Phe Ser Asn Leu Ile Ser Leu Gly Thr Asp Arg Arg
 35 40 45

Leu Asp Glu Asp Ser Ala Lys Ser Phe Ser Arg Ser Pro Ser Trp Arg
 50 55 60

Lys Met Phe Arg Glu Lys Asp Leu Arg Gly Val Thr Pro Asp Ser Ala
 65 70 75 80

Glu Met Leu Pro Pro Asn Phe Arg Ser Ala Ala Ala Gly Ala Leu Gly
 85 90 95

Ser Pro Gly Leu Pro Leu Arg Lys Leu Gln Pro Glu Gly Gln Thr Ser
 100 105 110

Gly Ser Ser Arg Ala Asp Gly Val Ser Val Arg Thr Tyr Ser Cys
 115 120 125

<210> 4827

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4827

Glu Ala Ala Asn Met Ile Leu Val Asp Asp Asp Phe Ser Ala Ile Met
 1 5 10 15

Asn Ala Val Glu Glu Gly Lys Gly Ile Phe Tyr Asn Ile Lys Asn Phe
 20 25 30

Val Arg Phe Gln Leu Ser Thr Ser Ile Ser Ala Leu Ser Leu Ile Thr
 35 40 45

Leu Ser Thr Val Phe Asn Leu Pro Ser Pro Leu Asn Ala Met Gln Ile
 50 55 60

Leu Trp Ile Asn Ile Ile Met Asp Gly Pro Pro Xaa Gln Arg
 65 70 75

<210> 4828

<211> 61

4384

<212> PRT

<213> Homo sapiens

<400> 4828

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Asn Ile Val Cys Ser Asp Phe Ile Lys Asp Ile Phe Lys Ser Pro Ile
 1             5             10             15

Tyr Ser Arg Ile Phe Ser Tyr Asp Val Ile Tyr Glu Lys Asp Val Cys
          20             25             30

Thr Asn Arg Cys Cys Asn Thr Thr Val Val Gly Phe Tyr Cys Leu Val
          35             40             45

Ile Asn Val Tyr Asn Ile Ser Lys Gly Asn Tyr Val Leu
      50             55             60

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<210> 4829

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4829

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Ala Leu Trp Gly Asp Ala Ser Gly Gln Ser Cys Leu Leu Ile Phe Ile
 1             5             10             15

Leu Arg Ala Ser Ala Leu Glu Xaa Leu Pro His Ala Phe Ser Val Asp
          20             25             30

His Ser Gly Pro Pro Val Gly Val Ala Cys Gln Ala Arg Thr Pro Pro
          35             40             45

Gly Gly Gln Ser Arg Asn Leu Arg Gly Ala Glu Thr Pro Phe Ile Ser
      50             55             60

Gly Cys His Arg Pro Glu Gln His Trp Ala Gly Cys Pro Leu Leu Thr
      65             70             75             80

Gly Trp Gln His Lys Asp Asn Met Ser Arg Gly Arg Arg Arg Arg Gly
          85             90             95

Ala Gln Ala Ala Gly His Ser Pro Ala Ala Pro Glu Ala Leu Ile Ser
          100             105             110

Asp His Gln Ala Met Thr Phe Leu Cys Ala Leu Gln Lys Ala Phe Asn

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4385

115	120	125
Cys Asp Gln Ala Val Cys Ser Asp Thr Leu Ser Gly Asp Phe		
130	135	140

<210> 4830

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4830

Gly Pro Arg His Ala Asp Phe Pro Cys Ser Ala Val Val Arg Lys Cys		
1	5	10
		15

4386

Leu Ala Ala Xaa Gly Arg Arg Arg Gly Arg Gln Thr Tyr Ser Arg Phe
 20 25 30
 Gln Thr Leu Glu Leu Glu Lys Glu Phe Leu Phe Asn Pro Tyr Leu Thr
 35 40 45
 Arg Lys Arg Arg Ile Glu Val Ser His Ala Leu Ala Xaa Thr Glu Arg
 50 55 60
 Xaa Val Lys Ile Trp Phe Gln Asn Arg Arg Met Asn Gly Lys Xaa Lys
 65 70 75 80
 Thr Thr Arg Gln Ile Ser Arg Phe Pro Ala Gly Gly Glu Gly Arg Gly
 85 90 95
 Asn Glu Lys Xaa Ser Pro Arg Ala Gly Gly Arg Gln Ser Arg Arg Pro
 100 105 110
 Xaa Xaa Leu Thr Ser Thr Phe Lys Ile Tyr His Arg Leu Leu Lys Leu
 115 120 125
 Ile Ile Thr Ile Cys Cys Gly His His Leu Phe Ser Leu Leu Glu Arg
 130 135 140
 Thr Leu Pro Val Phe Gln Ala Thr Phe Met Ser Leu Leu Leu Arg Phe
 145 150 155 160
 Ser Val Leu

<210> 4831

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

4387

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4831

Glu Leu Lys Arg Leu Thr Ile Gly Lys Asn Xaa Xaa Arg Leu Thr Gly
 1 5 10 15

Asn Arg Xaa Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Glu Val
 20 25 30

Glu Glu Glu Gly Asp Val Asp Ser Asp Glu Glu Glu Glu Glu Asp Glu
 35 40 45

Glu Ser Ser Ser Glu Gly Leu Glu Ala Glu Asp Trp Ala Gln Gly Val
 50 55 60

Val Glu Ala Gly Gly Ser Phe Gly Ala Tyr Gly Ala Gln Glu Glu Ala
 65 70 75 80

Gln Cys Pro Thr Leu His Phe Leu Glu Gly Gly Glu Asp Ser Asp Ser
 85 90 95

Asp Ser Glu Glu Glu Asp Asp Glu Glu Glu Asp Asp Glu Asp Glu Asp
 100 105 110

Asp Asp Asp Asp Glu Glu Asp Gly Asp Glu Val Pro Val Pro Ser Phe
 115 120 125

Gly Glu Ala Met Ala Tyr Phe Ala Met Val Lys Arg Tyr Leu Thr Ser
 130 135 140

Phe Pro Ile Asp Asp Arg Val Gln Ser His Ile Leu His Leu Glu His
 145 150 155 160

Asp Leu Val His Val Thr Arg Lys Asn His Ala Arg Gln Ala Gly Val
 165 170 175

Arg Gly Leu Gly His Gln Ser
 180

<210> 4832

<211> 313

<212> PRT

<213> Homo sapiens

<400> 4832

4388

Gly Arg Phe Gln Lys Cys Leu Ala Val Gly Met Ser His Asn Ala Ile
 1 5 10 15
 Arg Phe Gly Arg Met Pro Gln Ala Glu Lys Glu Lys Leu Leu Ala Glu
 20 25 30
 Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser Ala Asp Leu Arg
 35 40 45
 Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys Ser Phe Pro Leu
 50 55 60
 Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys Thr Thr Asp Lys
 65 70 75 80
 Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met Met Gly Glu Asp
 85 90 95
 Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu
 100 105 110
 Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg Ser Val Glu Ala
 115 120 125
 Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn
 130 135 140
 Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu
 145 150 155 160
 Ile Ile Tyr Thr Met Leu Ala Ser Leu Met Asn Lys Asp Gly Val Leu
 165 170 175
 Ile Ser Glu Gly Gln Gly Phe Met Thr Arg Glu Phe Leu Lys Ser Leu
 180 185 190
 Arg Lys Pro Phe Gly Asp Phe Met Glu Pro Lys Phe Glu Phe Ala Val
 195 200 205
 Lys Phe Asn Ala Leu Glu Leu Asp Asp Ser Asp Leu Ala Ile Phe Ile
 210 215 220
 Ala Val Ile Ile Leu Ser Gly Asp Arg Pro Gly Leu Leu Asn Val Lys
 225 230 235 240
 Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu Leu Gln
 245 250 255
 Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys Leu Leu
 260 265 270

4389

Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val Gln Leu
 275 280 285

Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His Pro Leu
 290 295 300

Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
 305 310

<210> 4833

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4833

Lys Ser Gly Ile Leu Val Asn Asn Val Xaa Met Ser Tyr Glu Tyr Pro
 1 5 10 15

Glu Tyr Phe Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Met
 20 25 30

Ile Asn Ile Asn Ile Leu Ser Val Cys Lys Met Thr Gln Leu Val Leu
 35 40 45

Pro Gly Met Val Glu Arg Ser Lys Gly Ala Ile Leu Asn Ile Ser Ser
 50 55 60

Gly Ser Gly Met Leu Pro Val Pro Leu Leu Thr Ile Tyr Ser Ala Thr
 65 70 75 80

Lys Thr Phe Val Asp Phe Phe Ser Gln Cys Leu His Glu Glu Tyr Arg
 85 90 95

Ser Lys Gly Val Phe Val Gln Ser Val Leu Pro Tyr Phe Val Ala Thr
 100 105 110

Lys Leu Ala Lys Ile Arg Lys Pro Thr Leu Asp Lys Pro Ser Pro Glu
 115 120 125

Thr Phe Val Lys Ser Ala Ile Lys Thr Val Gly Leu Gln Ser Arg Thr
 130 135 140

Asn Gly Tyr Leu Ile His Ala Leu Met Gly Ser Ile Ile Ser Asn Leu
 145 150 155 160

4390

Pro Ser Trp Ile Tyr Leu Lys Ile Val Met Asn Met Asn Lys Ser Thr
 165 170 175

Arg Ala His Tyr Leu Lys Lys Thr Lys Lys Asn
 180 185

<210> 4834

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4834

Ser Ile Glu Phe Ser Gly His Leu Phe Phe Pro Leu Pro Leu Leu Arg
 1 5 10 15

Pro Ser Pro Pro Leu Ile Ile Ile Gln Val Val Val Lys Ile Val Leu
 20 25 30

Leu Ser Asp Pro Phe Leu Val Trp Leu Phe Ile Pro Ser Glu Gln Val
 35 40 45

Asn Val Gly Ala Thr Ala Leu Val Ser Thr Val Ser Leu Thr Val Asn
 50 55 60

Glu Pro Pro Gly Val Ser Ser Lys Lys Arg Lys Gly Val Thr Gly Thr
 65 70 75 80

Thr Ala Leu Phe His Phe Ile Asn Cys Leu Phe Met Leu Pro Ala Gln
 85 90 95

Val Ser Thr

<210> 4835

<211> 301

<212> PRT

<213> Homo sapiens

<400> 4835

Leu Arg Val Phe Leu Cys Val Phe Phe Tyr Phe Ala Trp Leu Phe Glu
 1 5 10 15

His Tyr Trp Thr Leu Val Leu Glu Gly Lys Thr Phe Gln Leu Tyr Ser
 20 25 30

His Asn Leu Ile Ala Leu Phe Glu His Ala Lys Lys Pro Gly Leu Ala

4391

35	40	45
Ala His Ile Gln Thr His Arg Phe Pro Asp Arg Ile Leu Pro Arg Lys		
50	55	60
Phe Ala Leu Thr Thr Lys Ile Pro Asp Thr Lys Gly Cys His Lys Cys		
65	70	75 80
Cys Ile Val Arg Asn Pro Tyr Thr Gly His Lys Tyr Leu Cys Gly Ala		
	85 90	95
Leu Gln Ser Gly Ile Val Leu Leu Gln Trp Tyr Glu Pro Met Gln Lys		
	100 105	110
Phe Met Leu Ile Lys His Phe Asp Phe Pro Leu Pro Ser Pro Leu Asn		
	115 120	125
Val Phe Glu Met Leu Val Ile Pro Glu Gln Glu Tyr Pro Met Val Cys		
	130 135	140
Val Ala Ile Ser Lys Gly Thr Glu Ser Asn Gln Val Val Gln Phe Glu		
145	150 155	160
Thr Ile Asn Leu Asn Ser Ala Ser Ser Trp Phe Thr Glu Ile Gly Ala		
	165 170	175
Gly Ser Gln Gln Leu Asp Ser Ile His Val Thr Gln Leu Glu Arg Asp		
	180 185	190
Thr Val Leu Val Cys Leu Asp Lys Phe Val Lys Ile Val Asn Leu Gln		
	195 200	205
Gly Lys Leu Lys Ser Ser Lys Lys Leu Ala Ser Glu Leu Ser Phe Asp		
	210 215	220
Phe Arg Ile Glu Ser Val Val Cys Leu Gln Asp Ser Val Leu Ala Phe		
225	230 235	240
Trp Lys His Gly Met Gln Gly Lys Ser Phe Lys Ser Asp Glu Val Thr		
	245 250	255
Gln Glu Ile Ser Asp Glu Thr Arg Val Phe Arg Leu Leu Gly Ser Asp		
	260 265	270
Arg Val Val Val Leu Glu Ser Arg Pro Thr Glu Asn Pro Thr Ala His		
	275 280	285
Ser Asn Leu Tyr Ile Leu Ala Gly His Glu Asn Ser Tyr		
290	295 300	

4392

<210> 4836

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (342)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (348)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (351)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4836

Phe	Pro	Gly	Ser	Gly	Asn	Met	Ala	Lys	Asp	Ala	Gly	Leu	Ile	Glu	Ala
1				5					10					15	

Asn	Gly	Glu	Leu	Lys	Val	Phe	Ile	Asp	Gln	Asn	Leu	Ser	Pro	Gly	Lys
			20					25					30		

Gly	Val	Val	Ser	Leu	Val	Ala	Val	His	Pro	Ser	Thr	Val	Asn	Pro	Leu
			35				40					45			

Gly	Lys	Gln	Leu	Leu	Pro	Lys	Thr	Phe	Gly	Gln	Ser	Asn	Val	Asn	Ile
	50					55					60				

Ala	Gln	Gln	Val	Val	Ile	Gly	Thr	Pro	Gln	Arg	Pro	Ala	Ala	Ser	Asn
65					70					75					80

Thr	Leu	Val	Val	Gly	Ser	Pro	His	Thr	Pro	Ser	Thr	His	Phe	Ala	Ser
				85					90					95	

Gln	Asn	Gln	Pro	Ser	Asp	Ser	Ser	Pro	Trp	Ser	Ala	Gly	Lys	Arg	Asn
			100					105					110		

Arg	Lys	Gly	Glu	Lys	Asn	Gly	Lys	Gly	Leu	Arg	His	Phe	Ser	Met	Lys
		115					120					125			

4393

Val Cys Glu Lys Val Gln Arg Lys Gly Thr Thr Ser Tyr Asn Glu Val
 130 135 140
 Ala Asp Glu Leu Val Ala Glu Phe Ser Ala Ala Asp Asn His Ile Leu
 145 150 155 160
 Pro Asn Glu Ser Ala Tyr Asp Gln Lys Asn Ile Arg Arg Arg Val Tyr
 165 170 175
 Asp Ala Leu Asn Val Leu Met Ala Met Asn Ile Ile Ser Lys Glu Lys
 180 185 190
 Lys Glu Ile Lys Trp Ile Gly Leu Pro Thr Asn Ser Ala Gln Glu Cys
 195 200 205
 Gln Asn Leu Glu Val Glu Arg Gln Arg Arg Leu Glu Arg Ile Lys Gln
 210 215 220
 Lys Gln Ser Gln Leu Gln Glu Leu Ile Leu Gln Gln Ile Ala Phe Lys
 225 230 235 240
 Asn Leu Val Gln Arg Asn Arg His Ala Glu Gln Gln Ala Ser Arg Pro
 245 250 255
 Pro Pro Pro Asn Ser Val Ile His Leu Pro Phe Ile Ile Val Asn Thr
 260 265 270
 Ser Lys Lys Thr Val Ile Asp Cys Ser Ile Ser Asn Asp Lys Phe Glu
 275 280 285
 Tyr Leu Phe Asn Phe Asp Asn Thr Phe Glu Ile His Asp Asp Ile Glu
 290 295 300
 Val Leu Lys Arg Met Gly Met Ala Cys Gly Leu Glu Ser Gly Ser Cys
 305 310 315 320
 Ser Ala Glu Asp Leu Lys Met Ala Arg Ser Leu Val Pro Lys Ala Leu
 325 330 335
 Glu Pro Tyr Val Thr Xaa Met Ala Gln Gly Thr Xaa Gly Gly Xaa Xaa
 340 345 350
 Leu Cys Gln
 355

<210> 4837

<211> 263

<212> PRT

<213> Homo sapiens

4394

<400> 4837

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Trp Ile Thr Tyr Gln Gly Phe Leu Ser Gln Trp Thr Leu Thr Thr Tyr
 1             5             10             15

Leu Asp Val Gln Arg Cys Leu Glu Tyr Leu Gly Tyr Leu Gly Tyr Ser
      20             25             30

Ile Leu Thr Glu Gln Glu Ser Gln Ala Ser Ala Val Thr Val Thr Arg
 35             40             45

Asp Lys Lys Ile Asp Leu Gln Lys Lys Gln Thr Gln Arg Asn Val Phe
 50             55             60

Arg Cys Asn Val Ile Gly Val Lys Asn Cys Gly Lys Ser Gly Val Leu
 65             70             75             80

Gln Ala Leu Leu Gly Arg Asn Leu Met Arg Gln Lys Lys Ile Arg Glu
      85             90             95

Asp His Lys Ser Tyr Tyr Ala Ile Asn Thr Val Tyr Val Tyr Gly Gln
      100             105             110

Glu Lys Tyr Leu Leu Leu His Asp Ile Ser Glu Ser Glu Phe Leu Thr
      115             120             125

Glu Ala Glu Ile Ile Cys Asp Val Val Cys Leu Val Tyr Asp Val Ser
      130             135             140

Asn Pro Lys Ser Phe Glu Tyr Cys Ala Arg Ile Phe Lys Gln His Phe
      145             150             155             160

Met Asp Ser Arg Ile Pro Cys Leu Ile Val Ala Ala Lys Ser Asp Leu
      165             170             175

His Glu Val Lys Gln Glu Tyr Ser Ile Ser Pro Thr Asp Phe Cys Arg
      180             185             190

Lys His Lys Met Pro Pro Pro Gln Ala Phe Thr Cys Asn Thr Ala Asp
      195             200             205

Ala Pro Ser Lys Asp Ile Phe Val Lys Leu Thr Thr Met Ala Met Tyr
      210             215             220

Pro His Val Thr Gln Ala Asp Leu Lys Ser Ser Thr Phe Trp Leu Arg
      225             230             235             240

Ala Ser Phe Gly Ala Thr Val Phe Ala Val Leu Gly Phe Ala Met Tyr
      245             250             255

Lys Ala Leu Leu Lys Gln Arg

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4395

260

<210> 4838

<211> 285

<212> PRT

<213> Homo sapiens

<400> 4838

Gly Arg Met Asn Trp Thr Gly Leu Tyr Thr Leu Leu Ser Gly Val Asn
 1 5 10 15

Arg His Ser Thr Ala Ile Gly Arg Val Trp Leu Ser Val Ile Phe Ile
 20 25 30

Phe Arg Ile Met Val Leu Val Val Ala Ala Glu Ser Val Trp Gly Asp
 35 40 45

Glu Lys Ser Ser Phe Ile Cys Asn Thr Leu Gln Pro Gly Cys Asn Ser
 50 55 60

Val Cys Tyr Asp Gln Phe Phe Pro Ile Ser His Val Arg Leu Trp Ser
 65 70 75 80

Leu Gln Leu Ile Leu Val Ser Thr Pro Ala Leu Leu Val Ala Met His
 85 90 95

Val Ala His Gln Gln His Ile Glu Lys Lys Met Leu Arg Leu Glu Gly
 100 105 110

His Gly Asp Pro Leu His Leu Glu Glu Val Lys Arg His Lys Val His
 115 120 125

Ile Ser Gly Thr Leu Trp Trp Thr Tyr Val Ile Ser Val Val Phe Arg
 130 135 140

Leu Leu Phe Glu Ala Val Phe Met Tyr Val Phe Tyr Leu Leu Tyr Pro
 145 150 155 160

Gly Tyr Ala Met Val Arg Leu Val Lys Cys Asp Val Tyr Pro Cys Pro
 165 170 175

Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe
 180 185 190

Thr Val Phe Met Leu Ala Ala Ser Gly Ile Cys Ile Ile Leu Asn Val
 195 200 205

Ala Glu Val Val Tyr Leu Ile Ile Arg Ala Cys Ala Arg Arg Ala Gln
 210 215 220

4396

Arg Arg Ser Asn Pro Pro Ser Arg Lys Gly Ser Gly Phe Gly His Arg
 225 230 235 240

Leu Ser Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu
 245 250 255

Gln Asp Gly Ser Leu Lys Asp Ile Leu Arg Arg Ser Pro Gly Thr Gly
 260 265 270

Ala Gly Leu Ala Glu Lys Ser Asp Arg Cys Ser Ala Cys
 275 280 285

<210> 4839
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 4839
 Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Arg Ile Ser
 1 5 10 15

Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Glu
 20 25 30

Ala Arg Glu Ser Leu Glu Pro Arg Arg Trp Arg Leu Gln
 35 40 45

<210> 4840
 <211> 280
 <212> PRT
 <213> Homo sapiens

<400> 4840
 Arg Ala Glu Ser Val Pro Ala His Pro Cys Gly Phe Pro Ala Pro Leu
 1 5 10 15

Pro Pro Thr Arg Met Met Glu Ser Lys Met Ile Ala Ala Ile His Ser
 20 25 30

Ser Ser Ala Asp Ala Thr Ser Ser Ser Asn Tyr His Ser Phe Val Thr
 35 40 45

Ala Ser Ser Thr Ser Val Asp Asp Ala Leu Pro Leu Pro Leu Pro Val
 50 55 60

Pro Gln Pro Lys His Ala Ser Gln Lys Thr Val Tyr Ser Ser Phe Ala

4397

65		70		75		80									
Arg	Pro	Asp	Val	Thr	Thr	Glu	Pro	Phe	Gly	Pro	Asp	Asn	Cys	Leu	His
				85					90					95	
Phe	Asn	Met	Thr	Pro	Asn	Cys	Gln	Tyr	Arg	Pro	Gln	Ser	Val	Pro	Pro
			100					105					110		
His	His	Asn	Lys	Leu	Glu	Gln	His	Gln	Val	Tyr	Gly	Ala	Arg	Ser	Glu
		115					120					125			
Pro	Pro	Ala	Ser	Met	Gly	Leu	Arg	Tyr	Asn	Thr	Tyr	Val	Ala	Pro	Gly
		130				135					140				
Arg	Asn	Ala	Ser	Gly	His	His	Ser	Lys	Pro	Cys	Ser	Arg	Val	Glu	Tyr
145					150					155				160	
Val	Ser	Ser	Leu	Ser	Ser	Ser	Val	Arg	Asn	Thr	Cys	Tyr	Pro	Glu	Asp
			165					170					175		
Ile	Pro	Pro	Tyr	Pro	Thr	Ile	Arg	Arg	Val	Gln	Ser	Leu	His	Ala	Pro
			180				185						190		
Pro	Ser	Ser	Met	Ile	Arg	Ser	Val	Pro	Ile	Ser	Arg	Thr	Glu	Val	Pro
		195					200					205			
Pro	Asp	Asp	Glu	Pro	Ala	Tyr	Cys	Pro	Arg	Pro	Leu	Tyr	Gln	Tyr	Lys
	210					215					220				
Pro	Tyr	Gln	Ser	Ser	Gln	Ala	Arg	Ser	Asp	Tyr	His	Val	Thr	Gln	Leu
225					230				235						240
Gln	Pro	Tyr	Phe	Glu	Asn	Gly	Arg	Val	His	Tyr	Arg	Tyr	Ser	Pro	Tyr
			245						250					255	
Ser	Ser	Ser	Ser	Ser	Ser	Tyr	Tyr	Ser	Pro	Asp	Gly	Ala	Leu	Cys	Asp
			260					265					270		
Val	Asp	Ala	Tyr	Gly	Gln	Ser	Ser								
	275					280									

<210> 4841

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

4398

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4841

Ala Met Lys Asn Asn Asn Ile Lys Pro Tyr Gly Leu Ile Leu Lys Phe
1 5 10 15

Ile Ile Leu Ile Gln Lys Leu Pro His Thr Lys Val Thr Glu Leu Pro
20 25 30

Tyr Val Ser His Ile Val Xaa Glu His Lys Thr Leu Thr Thr Pro Leu
35 40 45

Ile Val Ser Thr Leu Phe Cys Lys Tyr Ser Glu Tyr Phe Gly Phe Ile
50 55 60

Leu Ser Arg Ile Phe Val Phe Asn Phe Ala Asn Glu Ile Phe Asn Asn
65 70 75 80

<210> 4842

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4842

Pro Ala Lys Gly Lys Lys Lys Cys Ser Pro His Ser Cys Lys Gly Leu
1 5 10 15

Gln Leu Ala Thr Ala Asn Arg Lys Ile Lys Met Ile Glu Pro Phe Gly
20 25 30

Asn Gln Tyr Ile Val Ala Arg Pro Val Tyr Ser Thr Asn Ala Phe Glu
35 40 45

Glu Asn His Lys Lys Thr Gly Arg His His Lys Thr Phe Leu Asp His
50 55 60

Leu Lys Val Cys Cys Asn Cys Ser Pro Gln Lys Ala Arg Glu Leu Ser
65 70 75 80

Ser Leu Xaa Phe Pro
85

4399

<210> 4843

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4843

Leu	Ser	Ala	Cys	Phe	Ala	Tyr	His	Arg	Asp	Ile	Ser	Met	Ala	Val	Pro
1				5					10					15	

Pro	Cys	Arg	Val	Ala	Tyr	Gln	Thr	Asp	Val	Asp	Cys	Xaa	Ile	Ser	Trp
			20					25					30		

Gln	His	Gln	Ser	Met	Gly	Cys	Leu	Thr	Phe	Trp	Tyr	Leu	Ser	Ser	Asp
		35					40					45			

His	Pro	Tyr	Pro	Met	Phe	Ser	Phe	Lys	His	Tyr	Pro	Ala	Ser	Leu	Phe
	50					55					60				

Ile	Ile	Arg	Asn	Ser	Gly	Pro	Ser	Val	Trp	Trp	His	Leu	Glu	Ser	Phe
65					70					75					80

Val Pro

<210> 4844

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (417)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4400

<222> (429)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4844

Glu	Pro	Leu	Ile	Glu	Leu	Ser	Asn	Pro	Gly	Ala	Ser	Gly	Ser	Leu	Phe
1				5					10					15	

Phe	Val	Thr	Ser	Asp	Asp	Glu	Phe	Ile	Ile	Lys	Thr	Val	Gln	His	Lys
			20					25					30		

Glu	Ala	Glu	Phe	Leu	Gln	Lys	Leu	Leu	Pro	Gly	Tyr	Tyr	Met	Asn	Leu
		35					40					45			

Asn	Gln	Asn	Pro	Arg	Thr	Leu	Leu	Pro	Lys	Phe	Tyr	Gly	Leu	Tyr	Cys
	50					55					60				

Met	Gln	Ser	Gly	Gly	Ile	Asn	Ile	Arg	Ile	Val	Val	Met	Asn	Asn	Val
65					70					75					80

Leu	Pro	Arg	Ser	Met	Arg	Met	His	Phe	Thr	Tyr	Asp	Leu	Lys	Gly	Ser
				85					90					95	

Thr	Tyr	Lys	Arg	Arg	Ala	Ser	Arg	Lys	Glu	Arg	Glu	Lys	Ser	Asn	Pro
			100					105					110		

Thr	Phe	Lys	Asp	Leu	Asp	Phe	Leu	Gln	Asp	Met	His	Glu	Gly	Leu	Tyr
		115					120					125			

Phe	Asp	Thr	Glu	Thr	Tyr	Asn	Ala	Leu	Met	Lys	Thr	Leu	Gln	Arg	Asp
	130					135					140				

Cys	Arg	Val	Leu	Glu	Ser	Phe	Lys	Ile	Met	Asp	Tyr	Ser	Leu	Leu	Leu
145					150					155					160

Gly	Ile	His	Phe	Leu	Asp	His	Ser	Leu	Lys	Glu	Lys	Glu	Glu	Glu	Thr
				165					170					175	

Pro	Gln	Asn	Val	Pro	Asp	Ala	Lys	Arg	Thr	Gly	Met	Gln	Lys	Val	Leu
			180					185					190		

Tyr	Ser	Thr	Ala	Met	Glu	Ser	Ile	Gln	Gly	Pro	Gly	Lys	Ser	Gly	Asp
		195					200					205			

Gly	Ile	Ile	Thr	Glu	Asn	Pro	Asp	Thr	Met	Gly	Gly	Ile	Pro	Ala	Lys
	210					215					220				

Ser	His	Arg	Gly	Glu	Lys	Leu	Leu	Leu	Phe	Met	Gly	Ile	Ile	Asp	Ile
225					230					235					240

Leu	Gln	Ser	Tyr	Arg	Leu	Met	Lys	Lys	Leu	Glu	His	Ser	Trp	Lys	Ala
				245					250					255	

4401

Leu Val Tyr Asp Gly Asp Thr Val Ser Val His Arg Pro Ser Phe Tyr
 260 265 270

Ala Asp Arg Phe Leu Lys Phe Met Asn Ser Arg Val Phe Lys Lys Ile
 275 280 285

Gln Ala Leu Lys Ala Ser Pro Ser Lys Lys Arg Cys Asn Ser Ile Ala
 290 295 300

Ala Leu Lys Ala Thr Ser Gln Glu Ile Val Ser Ser Ile Ser Gln Glu
 305 310 315 320

Trp Lys Asp Glu Lys Arg Asp Leu Leu Thr Glu Gly Gln Ser Phe Ser
 325 330 335

Ser Leu Asp Glu Glu Ala Leu Gly Ser Arg His Arg Pro Asp Leu Val
 340 345 350

Pro Ser Thr Pro Ser Leu Phe Glu Ala Ala Ser Leu Ala Thr Thr Ile
 355 360 365

Ser Ser Ser Ser Leu Tyr Val Asn Glu His Tyr Pro His Asp Arg Pro
 370 375 380

Thr Leu Tyr Phe Lys Gln Gln Arg Val Thr Phe Gln Xaa Gln His Phe
 385 390 395 400

Thr Leu Gly Arg Gly Asp Leu Leu Leu Gly Pro Leu Gly Pro Asn Ile
 405 410 415

Xaa Gly Ser Cys Arg Val Thr Leu Phe Leu Trp Phe Xaa Arg
 420 425 430

<210> 4845

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4845

Lys Ile Val Ser Phe Phe Phe Phe Tyr Arg Lys Leu Ser Leu Cys Asn
 1 5 10 15

Ser Val Ser Phe Arg Phe Leu Ser Cys Phe Cys Lys Leu Trp Glu Arg
 20 25 30

Leu Thr Met Gln Met Cys Gln Arg His Thr Val Gly Cys Asn Ile Asn
 35 40 45

4402

Asn Phe Lys Cys Lys Phe Leu Trp Ile Asn Tyr Phe Tyr Ile Leu
 50 55 60

<210> 4846

<211> 128

<212> PRT

<213> Homo sapiens

<400> 4846

Ala Cys Pro Arg Pro Arg Thr Pro Asp Pro Ser His Pro Phe Gln Arg
 1 5 10 15

Pro Arg Ala Arg Pro Trp Thr Glu Leu Leu Val Leu Cys Arg Glu Thr
 20 25 30

Ile Gln Pro Lys Leu Trp Glu Ala Gln Ser Ile Glu Trp Ala Glu Ala
 35 40 45

Ala Gly Ala Glu Pro Gly Arg Val Leu Gly Val His Pro Ser Leu Arg
 50 55 60

Arg Gln Val Pro Gln Gly Pro Thr His Leu Lys Pro Ala Cys Thr Val
 65 70 75 80

Glu Val Val Glu Val Asp Thr Pro Arg Gly Phe Ser Lys Ala Arg Leu
 85 90 95

Ala Ala Pro Cys Ser Gly Lys Leu Asn Tyr Ser Arg Phe Arg Ser Ser
 100 105 110

Val Asp Ser His Gln Ser Gly Gly Val Leu Lys Glu Phe Tyr Val Asp
 115 120 125

<210> 4847

<211> 175

<212> PRT

<213> Homo sapiens

<400> 4847

His Glu Leu Thr Asp Ala Ala Ser Ile Ala Ala Ala Arg Gly Glu Met
 1 5 10 15

Ser Glu Val Arg Pro Leu Ser Arg Asp Ile Leu Met Glu Thr Leu Leu
 20 25 30

4403

Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met Thr
 35 40 45
 Asp Ser Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu Glu
 50 55 60
 Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly
 65 70 75 80
 Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu Ser
 85 90 95
 Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln Thr
 100 105 110
 Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr Thr
 115 120 125
 Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly Ser
 130 135 140
 Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Leu Ala
 145 150 155 160
 Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys
 165 170 175

<210> 4848
 <211> 179
 <212> PRT
 <213> Homo sapiens

<400> 4848
 Ser Thr Leu Arg Ile Pro Gly Pro Cys Phe Pro Ser Glu Lys Thr His
 1 5 10 15
 Asn His Asp Pro Gln Pro Gly Asp Pro Asn Ser Arg Pro Ser Ser Pro
 20 25 30
 Lys Pro Ala Gln Pro Ala Leu Lys Met Gln Val Leu Tyr Glu Phe Glu
 35 40 45
 Ala Arg Asn Pro Arg Glu Leu Thr Val Val Gln Gly Glu Lys Leu Glu
 50 55 60
 Val Leu Asp His Ser Lys Arg Trp Trp Leu Val Lys Asn Glu Ala Gly
 65 70 75 80

Arg	Ser	Gly	Tyr	Ile	Pro	Ser	Asn	Ile	Leu	Glu	Pro	Leu	Gln	Pro	Gly		
				85					90					95			
Thr	Pro	Gly	Thr	Gln	Gly	Gln	Ser	Pro	Ser	Arg	Val	Pro	Met	Leu	Arg		
				100					105					110			
Leu	Ser	Ser	Arg	Pro	Glu	Glu	Val	Thr	Asp	Trp	Leu	Gln	Ala	Glu	Asn		
				115					120					125			
Phe	Ser	Thr	Ala	Thr	Val	Arg	Thr	Leu	Gly	Ser	Leu	Thr	Gly	Ser	Gln		
				130					135					140			
Leu	Leu	Arg	Ile	Arg	Pro	Gly	Glu	Leu	Gln	Met	Leu	Cys	Pro	Gln	Glu		
145					150					155					160		
Ala	Pro	Arg	Ile	Leu	Ser	Arg	Leu	Glu	Ala	Val	Arg	Arg	Met	Leu	Gly		
				165					170					175			
Ile	Ser	Pro															

<400> 4849

Leu	Arg	Arg	Ser	Gly	Leu	Ser	Arg	Asp	Ala	Thr	Leu	Thr	Cys	Leu	Val
1				5				10				15			
Pro	Ser	Ala	Ala	Phe	Gly	Cys	Ala	Gly	Lys	Leu	Arg	Arg	Gln	Trp	Pro
20				25				30							
Arg	Asp	Pro	Ala	Cys	Leu	Arg	Arg	Pro	Arg	Leu	Asp	Ala	Lys	Glu	Leu
35				40				45							
Gln	His	Pro	Gly	Asp	Lys	Met	Pro	Thr	Gly	Lys	Gln	Leu	Ala	Asp	Ile
50				55				60							
Gly	Tyr	Lys	Thr	Phe	Ser	Thr	Ser	Met	Met	Leu	Leu	Thr	Val	Tyr	Gly
65				70				75				80			
Gly	Tyr	Leu	Cys	Ser	Val	Arg	Val	Tyr	His	Tyr	Phe	Gln	Trp	Arg	Arg
85				90				95							
Ala	Gln	Arg	Gln	Ala	Ala	Glu	Glu	Gln	Lys	Thr	Ser	Gly	Ile	Met	
100				105				110							

4405

<210> 4850

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4850

Pro Met Gly Arg Arg Leu Trp Arg Leu Leu Leu Ser Pro Gln Leu Pro
 1 5 10 15

Ala Gly Gly Thr Val Ser Pro Phe Pro Gln Gly Thr Trp Leu Ser Gly
 20 25 30

Gly Asn Ala His Phe Pro Gly Leu Asp Cys Gln Leu Phe Leu Ala Gly
 35 40 45

Glu Glu Pro Cys Leu Ser Ala Pro Glu Pro Thr Val Arg Gly Xaa Ser
 50 55 60

Arg Leu Gln Pro Leu Ala Gln Ser Gln Gln Pro Ala Lys His Thr Glu
 65 70 75 80

Gly Asp Cys His Leu Pro Leu Pro Ala Ala Glu Pro Gln Arg Ser Asp
 85 90 95

Gly Ser Tyr Thr Gly Gln Gly Phe Leu Leu Gly Ile Thr Ser His Arg
 100 105 110

Asn Gln

<210> 4851

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4851

Arg Ala Tyr Lys Pro Ser Arg Val Leu Arg Glu Leu Gln Leu Asp Lys
 1 5 10 15

Asp Ser Val Trp His Gly Cys Gly Glu Val Leu Lys Ala Lys Tyr Lys
 20 25 30

Gly Lys Ser Tyr Arg Ala Thr Val Glu Ile Val Lys Thr Ala Asp Arg

4406

35	40	45
Val Thr Glu Phe Cys Arg Gln Thr Cys Ile Lys Leu Glu Cys Cys Pro		
50	55	60
Asn Leu Phe Gly Pro Arg Met Val Leu Asp Lys Cys Ser Glu Asn Cys		
65	70	75
Ser Val Leu Thr Lys Thr Lys Tyr Thr His Tyr Tyr Gly Lys Lys Lys		
85	90	95
Asn Lys Arg Ile Gly Arg Pro Pro Gly Gly His Ser Asn Leu Ala Cys		
100	105	110
Ala Leu Lys Lys Ala Ser Lys Arg Arg Lys Arg Arg Lys Asn Val Phe		
115	120	125
Val His Lys Lys Lys Arg Ser Ser Ala Ser Val Asp Asn Thr Pro Ala		
130	135	140
Gly Ser Pro Gln Gly Ser Gly Gly Glu Asp Glu Asp Asp Pro Asp Glu		
145	150	155
Gly Asp Asp Asp Ser Leu Ser Glu Gly Ser Thr Ser Glu Gln Gln Asp		
165	170	175
Glu Leu Gln Glu Glu Ser Glu Met Ser Glu Lys Lys Ser Cys Ser Ser		
180	185	190
Ser Pro Thr Gln Ser Glu Ile Ser Thr Ser Leu Pro Pro Asp Arg Gln		
195	200	205
Arg Arg Lys Arg Glu Leu Arg Thr Phe Ser Phe Ser Asp Asp Glu Asn		
210	215	220
Lys Pro Pro Ser Pro Lys Glu Ile Arg Ile Glu Val Ala Glu Arg Leu		
225	230	235
His Leu Asp Ser Asn Pro Leu Lys Trp Ser Val Ala Asp Val Val Arg		
245	250	255
Phe Ile Arg Ser Thr Asp Cys Ala Pro Leu Ala Arg Ile Phe Leu Asp		
260	265	270
Gln Glu Ile Asp Gly Gln Ala Leu Leu Leu Leu Thr Leu Pro Thr Val		
275	280	285
Gln Glu Cys Met Asp Leu Lys Leu Gly Pro Ala Ile Lys Leu Cys His		
290	295	300
His Ile Glu Arg Ile Lys Phe Ala Phe Tyr Glu Gln Phe Ala Asn		

4407

305

310

315

<210> 4852

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4852

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Leu Pro Pro His His Pro Pro His Leu Phe Ser Gly Arg Val Gly Ile
 1              5              10              15

Ala Ala Gly Gly Asp Phe Gly Ser Leu Ala Thr Pro Ala Arg Thr Ala
      20              25              30

Gly Gln Pro Leu Cys Gly Asp Ala Trp Cys Pro Ile Cys Arg Pro Ser
      35              40              45

Glu Glu Cys Thr Ala Phe Thr Phe Tyr Cys Val Arg Val His Pro Asp
      50              55              60

Cys Ser Ile Gln Lys Ser Phe Phe Phe Pro His Arg Gln Ser Gly Asn
      65              70              75              80

Asp Ser Phe Pro Asp Cys Phe Cys Leu Val Pro Gly Asn Leu Glu Ser
      85              90              95

Ile Pro Gln

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<210> 4853

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4853

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Asp Pro Ser Ile Leu Glu Thr Asn Ala Pro Leu Lys Ser Asn Ile Tyr
 1              5              10              15

Thr Ala Val Asn Ile Cys Lys Val Ser Met Phe Asn Ser Leu Arg Ile
      20              25              30

Leu Arg Ile Met Asp Leu Leu Ala Lys Ile Pro Leu Lys Gln Leu Ser
      35              40              45

His Ile Ser Asn Phe Tyr Leu Gly Lys Gln Val
      50              55

```

4408

<210> 4854

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4854

Asp	Lys	Ala	Lys	Gly	Pro	Leu	Leu	Ala	Gly	His	Pro	Cys	Pro	Ile	Phe
1				5					10					15	

Ser	Pro	Gly	Pro	Phe	Pro	Cys	Gly	His	Arg	Glu	Val	Trp	Pro	Glu	Tyr
			20					25					30		

Pro	Thr	Pro	Ala	Pro	Leu	His	Pro	Glu	Leu	Gly	Ala	Thr	Ser	Glu	Val
		35					40					45			

Ser	Ser	Leu	Ser	Glu	His	Ala	Phe	Pro	Cys	Ser	Xaa	Arg	Gly	Met	Ser
	50					55					60				

Arg	Leu	Ser	Asp	Ala	Gly	Ala	Glu	Arg	Pro	Gly	Arg	Lys	Gly	Val	Gln
65					70					75					80

Pro	Val	Val	Cys	Lys	Ala	Leu	Val	Gly	Thr	Cys
			85						90	

<210> 4855

<211> 84

<212> PRT

<213> Homo sapiens

<400> 4855

Arg	Arg	Phe	Cys	Ser	Asn	Asn	Arg	Asp	Gln	Arg	Val	Asn	Gln	Ile	Trp
1				5					10					15	

Phe	Ser	Cys	Tyr	Asn	Cys	Met	Ile	Gln	Arg	Gln	Phe	Asn	His	Pro	Lys
			20					25					30		

Phe	Pro	Trp	Pro	Pro	Gln	Ser	Arg	Pro	Ala	Ile	Arg	Phe	Leu	Leu	Gln
		35					40					45			

Val	Gly	Val	Asn	Leu	His	Phe	Glu	Ser	Cys	Gly	Ser	Phe	Gly	Asp	Leu
	50					55					60				

4409

Val Leu Phe Tyr Phe Ala Leu Leu Ile Lys Glu Leu Val Glu Lys Lys
 65 70 75 80

Lys Lys Lys Thr

<210> 4856

<211> 105

<212> PRT

<213> Homo sapiens

<400> 4856

Val Asn Ser Arg Arg Gly Gly Lys Arg Ser Cys Arg Gly Gly Lys Asn
 1 5 10 15

Lys Pro Val Pro Thr Thr Glu Thr Pro Asn His Leu Ser Pro Val Asp
 20 25 30

Gly Pro Ala Lys Thr Ser Thr Gln Gln Asp Tyr Arg Gly Arg Asn Pro
 35 40 45

Lys Cys Trp Cys Gly Arg Ser Lys Thr Trp Gly Glu Phe Leu Asp Leu
 50 55 60

Glu Leu Arg Ala Met Gly Leu Asp Met Thr Gly Thr Asn Ser Cys His
 65 70 75 80

Met Phe Met Val Arg Cys His Thr Phe Ser Ala Val Leu Phe His Gln
 85 90 95

Tyr Leu Pro Gly Lys Gln Arg Met Cys
 100 105

<210> 4857

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

4410

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4857

Arg	Phe	Thr	Ala	Ser	Ser	Ser	Ser	Gly	Met	Val	Pro	Lys	Leu	Pro	Ala
1				5					10					15	

Gly	Lys	Met	Asn	Asn	Arg	Asp	Leu	Lys	Pro	Gln	Pro	Asp	Ile	Val	Leu
			20					25					30		

Leu	Pro	Leu	Pro	Thr	Ala	Tyr	Glu	Leu	Asp	Ser	Thr	Lys	Leu	Lys	Ser
		35					40					45			

Pro	Leu	Ile	Thr	Ser	Pro	Met	Phe	Arg	Asn	Val	Pro	Thr	Ala	Asn	Pro
	50					55					60				

Thr	Glu	Pro	Gly	Ile	Arg	Arg	Val	Pro	Gly	Ala	Ser	Xaa	Val	Ile	Arg
65					70					75					80

Glu	Ser	Ser	Ser	Thr	Thr	Gly	Met	Val	Val	Gly	Ile	Val	Ala	Ala	Ala
				85					90					95	

Ala	Leu	Cys	Ile	Leu	Ile	Leu	Leu	Tyr	Ala	Met	Tyr	Lys	Tyr	Arg	Asn
		100						105					110		

Arg	Asp	Glu	Gly	Ser	Tyr	Gln	Val	Asp	Glu	Thr	Arg	Asn	Tyr	Ile	Ser
	115						120					125			

Asn	Ser	Ala	Gln	Ser	Asn	Gly	Thr	Leu	Met	Lys	Gly	Glu	Ser	Ser	Xaa
	130					135					140				

Xaa	Arg	Arg	Ala	Gly	His	Lys	Lys	Pro	Glu	Lys	Thr	Xaa	Gly	Gln	Gly
145					150					155					160

Lys	Tyr	Leu	Thr	Trp
				165

<210> 4858

<211> 48

<212> PRT

<213> Homo sapiens

4411

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4858
 Ser Leu Ala Lys His Leu Asn His Leu Ser Ile Leu Ser Trp Xaa Ile
 1 5 10 15
 Ile Ile Lys Ala Gln Asn Asn Leu Leu Leu Glu Asn Met Cys Phe Xaa
 20 25 30
 Asn Glu Xaa Lys Xaa Ile Lys Lys Xaa Lys Lys Gly Ala Ala Gly Leu
 35 40 45

<210> 4859
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 4859
 Glu Gly Met Gly His Thr Ser Pro Arg Ala Asp Pro Ala Gly Gly Ser
 1 5 10 15
 Pro Gly Ala Gly Ser Cys Arg Pro Gly Ala Gly Pro Cys His Pro Gly

4412

20 25 30
 Arg Ala Arg Asp Met Ala Gly Pro Gly His Pro Gly Ala Gly Leu Gly
 35 40 45
 Arg Pro Gly Arg His Arg Glu Gly Arg Asp Gly Arg Pro Arg Pro Ser
 50 55 60
 Ala Val Pro Ala Thr Pro Met His Arg Ser Ser Ser Leu Pro His Pro
 65 70 75 80
 Lys Ala Val Ala Gly Ala
 85

<210> 4860

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4860

His Arg Ala Xaa Ser Glu Ala Glu Met Gln Trp Arg Leu Gln Val Asn
 1 5 10 15
 Arg Leu Gln Glu Leu Ile Asp Gln Leu Glu Cys Lys Ala Pro Arg Leu
 20 25 30
 Glu Pro Leu Arg Glu Glu Asp Leu Ala Lys Gly Pro Asp Leu His Ile
 35 40 45
 Leu Met Ala Gln Arg Gln Val Gln Val Ala Glu Glu Gly Leu Gln Asp
 50 55 60
 Phe His Arg Ala Leu Arg Cys Tyr Val Asp Phe Thr Gly Ala Gln Ser
 65 70 75 80
 His Cys Leu His Val Ser Ala Gln Lys Met Leu Asp Gly Ala Ser Phe
 85 90 95
 Thr Leu Tyr Glu Phe Trp Gln Asp Glu Ala Ser Trp Arg Arg His Gln
 100 105 110
 Gln Ser Pro Gly Ser Lys Ala Phe Gln Arg Ile Leu Ile Asp His Cys
 115 120 125

4413

Gly Pro Arg Thr Pro Ser Pro Leu Cys Ser Ser Gln Pro Pro Gly Gly
 130 135 140

<210> 4861
 <211> 595
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (392)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (393)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (571)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4861
 Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
 1 5 10 15

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg
 20 25 30

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
 35 40 45

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr
 50 55 60

Gln Asp Ala Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val
 65 70 75 80

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe
 85 90 95

Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn
 100 105 110

Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr

4414

115	120	125
Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser		
130	135	140
Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala		
145	150	155 160
Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu		
	165	170 175
Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys		
	180	185 190
Gln Ala His Asn Ser Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr		
	195	200 205
Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn		
	210	215 220
Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro		
	225	230 235 240
Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu		
	245	250 255
Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr		
	260	265 270
Leu Leu Ser Val Thr Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile		
	275	280 285
Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val		
	290	295 300
Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr		
	305	310 315 320
Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro		
	325	330 335
Pro Ala Gln Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr		
	340	345 350
Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr		
	355	360 365
Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val		
	370	375 380
Lys Thr Ile Thr Val Ser Ala Xaa Xaa Pro Lys Pro Ser Ile Ser Ser		

4415

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385              390              395              400
Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys
      405              410              415
Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln
      420              425              430
Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr
      435              440              445
Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys
      450              455              460
Gly Ile Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu
465              470              475              480
Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser
      485              490              495
Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser
      500              505              510
Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln
      515              520              525
His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
      530              535              540
Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
545              550              555              560
Ile Val Lys Ser Ile Thr Val Ser Ala Ser Xaa Thr Ser Pro Gly Leu
      565              570              575
Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val Gly Val
      580              585              590
Ala Leu Ile
      595

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<210> 4862

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

4416

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4862

Pro	Val	Arg	Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Ala	Leu	Lys	Glu
1				5					10					15	

Val	Phe	Lys	Glu	Tyr	Leu	Ile	Glu	Leu	Xaa	Xaa	Leu	Gln	His	Phe	Gln
			20					25					30		

Gly	Asn	Met	Met	Asp	Phe	Leu	Ala	Phe	Lys	Glu	Arg	Leu	Tyr	Gly	Pro
		35					40					45			

Leu	Gln	Ala	Tyr	Leu	Arg	Gln	Asn	Asp	Leu	Asp	Ile	Glu	Glu	Glu	Glu
	50					55					60				

Glu	Glu	His	Phe	Glu	Val	Ile	Asn	Asp	Glu	Val	Lys	Val	Val	Ala	Arg
65					70					75					80

Lys	His	Gly	Gln	Pro	Gly	Thr	Pro	Val	Ala	Ile	Ala	Thr	Xaa	Xaa	Pro
				85					90					95	

Pro	Arg	Thr	Ser	Ala	Ala	Phe	Pro	Ala	Gln	Gln	Gln	Pro	Leu	Gln	Val
			100					105					110		

Leu	Ser	Asp	Gly	Ser	Thr	Val	Gln	Leu	Pro	Arg	Leu	Ser	Ser	Leu	Gly
		115					120					125			

Phe	Glu	Asp	Ser	Met	Cys
					130

<210> 4863

<211> 209

<212> PRT

<213> Homo sapiens

4417

<400> 4863

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Leu Val Pro Arg Pro Arg Pro Arg Gln Leu Cys Ala Val Ile His Ser
 1             5             10             15

Leu Leu Arg Pro Gly Ala Pro Phe Pro Ala Arg Arg Arg Ala Arg Gln
      20             25             30

Leu Gly Val Gln Arg Pro Arg Asn His Glu Gln Val Ser Arg Ser Ser
      35             40             45

Glu Ala Pro Gly Thr Pro Ala His Ala Met Ala Asp Ser Glu Arg Leu
      50             55             60

Ser Ala Pro Gly Cys Trp Ala Ala Cys Thr Asn Phe Ser Arg Thr Arg
      65             70             75             80

Lys Gly Ile Leu Leu Phe Ala Glu Ile Ile Leu Cys Leu Val Ile Leu
      85             90             95

Ile Cys Phe Ser Ala Ser Thr Pro Gly Tyr Ser Ser Leu Ser Val Ile
      100            105            110

Glu Met Ile Leu Ala Ala Ile Phe Phe Val Val Tyr Met Cys Asp Leu
      115            120            125

His Thr Lys Ile Pro Phe Ile Asn Trp Pro Trp Ser Asp Phe Phe Arg
      130            135            140

Thr Leu Ile Ala Ala Ile Leu Tyr Leu Ile Thr Ser Ile Val Val Leu
      145            150            155            160

Val Glu Arg Gly Asn His Ser Lys Ile Val Ala Gly Val Leu Gly Leu
      165            170            175

Ile Ala Thr Cys Leu Phe Gly Tyr Asp Ala Tyr Val Thr Phe Pro Val
      180            185            190

Arg Gln Pro Arg His Thr Ala Ala Pro Thr Asp Pro Ala Asp Gly Pro
      195            200            205

Val

```

<210> 4864

<211> 129

<212> PRT

<213> Homo sapiens

4418

<400> 4864

Val Cys Val Arg Val Arg Gly Arg Asn Arg Ser Ala Arg Ser Leu Pro
 1 5 10 15

Leu Glu Gln Cys Leu Pro Gln Tyr Phe Cys Arg Gly Lys Asp Arg Asn
 20 25 30

Ser Leu Leu Gly Phe Leu Gln Ser Pro Cys Thr Cys Gln Ser Phe Ser
 35 40 45

Tyr Gln Cys Lys Gly Asn Pro Glu Leu Arg Phe Glu Leu Ser His His
 50 55 60

Leu His Gly Gln Ile Ser Pro Leu Pro Lys Gly Ser Phe Arg Leu Trp
 65 70 75 80

Val Tyr Leu Phe Leu His Ala Ser Ser Trp Gln Cys Pro Val Glu Ala
 85 90 95

Tyr Leu Pro Ile Cys Val Cys Ile His Ser Leu Lys Thr Thr Arg Gln
 100 105 110

Lys Lys Lys Lys Lys Thr Arg Gly Gly Ala Arg Tyr Pro Ile Arg Ala
 115 120 125

Ile

<210> 4865

<211> 316

<212> PRT

<213> Homo sapiens

<400> 4865

Cys Met Asp Phe Gly Val Leu Val Pro Thr Ala Tyr Met Phe Trp Gly
 1 5 10 15

Leu Leu Ser Cys Ser Leu Pro Thr Phe Cys Val Met Ser Val Pro Gly
 20 25 30

Arg Trp Pro Pro Ala Arg Trp Arg Leu Ser Ile Leu Ala Val Ser Ile
 35 40 45

Met Pro Cys Val Cys Leu Ala Ser Leu Leu Gln Ile Leu Trp Thr Arg
 50 55 60

Ser Ser Ser Pro Ala His His Leu Ala Ser Pro Phe Leu Cys Val Gln
 65 70 75 80

4419

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Ile Trp Gln Cys Gly Gly Val Leu Glu Thr His Pro Cys Ser His Val
      85                      90                      95

Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser Arg Asn Lys Ala Leu
      100                    105                    110

Ala Asn Ser Val Arg Ala Ala Glu Val Trp Met Asp Glu Phe Lys Glu
      115                    120                    125

Leu Tyr Tyr His Arg Asn Pro Arg Ala Arg Leu Glu Pro Phe Gly Asp
      130                    135                    140

Val Thr Glu Arg Lys Gln Leu Arg Asp Lys Leu Gln Cys Lys Asp Phe
      145                    150                    155                    160

Lys Trp Phe Leu Glu Thr Val Tyr Pro Glu Leu His Val Pro Glu Asp
      165                    170                    175

Arg Pro Gly Phe Phe Gly Met Leu Gln Asn Lys Gly Leu Thr Asp Tyr
      180                    185                    190

Cys Phe Asp Tyr Asn Pro Pro Asp Glu Asn Gln Ile Val Gly His Gln
      195                    200                    205

Val Ile Leu Tyr Leu Cys His Gly Met Gly Gln Asn Gln Phe Phe Glu
      210                    215                    220

Tyr Thr Ser Gln Lys Glu Ile Arg Tyr Asn Thr His Gln Pro Glu Gly
      225                    230                    235                    240

Cys Ile Ala Val Glu Ala Gly Met Asp Thr Leu Ile Met His Leu Cys
      245                    250                    255

Glu Glu Thr Ala Pro Glu Asn Gln Lys Phe Ile Leu Gln Glu Asp Gly
      260                    265                    270

Ser Leu Phe His Glu Gln Ser Lys Lys Cys Val Gln Ala Ala Arg Lys
      275                    280                    285

Glu Ser Ser Asp Ser Phe Val Pro Leu Leu Arg Asp Cys Thr Asn Ser
      290                    295                    300

Asp His Gln Lys Trp Phe Phe Lys Glu Arg Met Leu
      305                    310                    315

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<210> 4866

<211> 220

<212> PRT

<213> Homo sapiens

4420

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4866

Lys Ala Arg Arg Arg Gly Thr Met Ala Ala Ala Asp Glu Arg Ser
 1 5 10 15

Pro Glu Asp Gly Glu Asp Glu Glu Glu Glu Gln Leu Val Leu Val
 20 25 30

Glu Leu Ser Gly Ile Ile Asp Ser Xaa Phe Leu Ser Lys Cys Glu Asn
 35 40 45

Lys Cys Lys Val Leu Gly Ile Asp Thr Glu Arg Pro Ile Leu Gln Val
 50 55 60

Asp Ser Cys Val Phe Ala Gly Glu Tyr Glu Asp Thr Leu Gly Thr Cys
 65 70 75 80

Val Ile Phe Glu Glu Asn Val Glu His Ala Asp Thr Glu Gly Asn Asn
 85 90 95

Lys Thr Val Leu Lys Tyr Lys Cys His Thr Met Lys Lys Leu Ser Met
 100 105 110

Thr Arg Thr Leu Leu Thr Glu Lys Lys Glu Gly Glu Glu Asn Ile Gly
 115 120 125

Gly Val Glu Trp Leu Gln Ile Lys Asp Asn Asp Phe Ser Tyr Arg Pro
 130 135 140

Asn Met Ile Cys Asn Phe Leu His Glu Asn Glu Asp Glu Glu Val Val
 145 150 155 160

Ala Ser Ala Pro Asp Lys Ser Leu Glu Leu Glu Glu Glu Glu Ile Gln
 165 170 175

Met Asn Asp Ser Ser Asn Leu Ser Cys Glu Gln Glu Lys Pro Met His
 180 185 190

Leu Glu Ile Glu Asp Ser Gly Pro Leu Ile Asp Ile Pro Ser Glu Thr
 195 200 205

Glu Gly Ser Val Phe Met Glu Thr Gln Met Leu Pro
 210 215 220

4421

<210> 4867

<211> 88

<212> PRT

<213> Homo sapiens

<400> 4867

Lys Thr Leu Phe Thr Tyr Ser Phe His Gly Tyr Asn Thr Leu Ala Asp
 1 5 10 15

Phe Leu Leu Ala Leu Gly Ala Met Ile Leu Ile Thr Phe Cys Lys Val
 20 25 30

Thr Asn Val Ile His Ser Thr Leu Cys Gly Ser His Leu Phe Arg Leu
 35 40 45

Met Cys Phe Gly Glu Arg Lys Lys Phe Leu Ala Glu Tyr Tyr Phe Glu
 50 55 60

Leu Ser Arg Thr Leu Ser His Gln Arg Gln Phe Phe Ser Val Gln Phe
 65 70 75 80

Pro Ile Pro Asp Asn Leu Leu Lys
 85

<210> 4868

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4868

Ser Leu Ile Cys Tyr Val Gln Ser Leu Lys Ala Thr Thr His Phe Phe
 1 5 10 15

Leu Lys Val Asp Ala Phe Ser Ala Val Leu Glu Ser Val Phe Cys Phe
 20 25 30

Trp Gln Glu Ser Cys Lys Leu Cys Ile Leu Lys Gln Met Gln Lys Val
 35 40 45

Val Leu Cys Lys Thr Phe Val Phe Cys Leu Ser Gln Ile Asn Ile Leu
 50 55 60

<210> 4869

<211> 66

4422

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4869

Met	Cys	Arg	Leu	Cys	Ile	Cys	Val	Asn	Ile	Tyr	Thr	Pro	Arg	Cys	His
1				5					10					15	

Ser	Lys	Cys	Leu	Glu	Ile	Thr	Val	His	Thr	Cys	Xaa	Leu	Pro	Ser	Ser
			20					25						30	

Leu	Glu	Leu	Leu	Ser	Cys	Asn	Met	Ala	Leu	Lys	Asn	Tyr	Pro	Ile	Ser
			35				40					45			

Xaa	Val	Leu	Cys	Leu	Gly	Asn	Met	Val	Asn	Trp	Arg	Ile	Leu	Thr	His
	50					55					60				

Ser	Val
65	

<210> 4870

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4870

Arg	His	Leu	Leu	Ile	His	Gly	Leu	Tyr	Arg	Asn	Glu	Ala	Gly	Cys	Asn
1				5					10					15	

Thr	Asn	Leu	Glu	Ser	Pro	Ser	Trp	Arg	Thr	Ile	Lys	Leu	Phe	Lys	Asp
			20					25						30	

His	Pro	Trp	Pro	Gly	Thr	Val	Val	His	Thr	Cys	Asn	Pro	Ser	Thr	Leu
			35				40					45			

Gly	Gly	Leu	Gly	Arg	Gln	Thr	Glu	Leu	Arg	Ser	Leu	Arg	Pro	Ala	Trp
		50				55					60				

Ala	Thr	Trp	Gln	Lys	Pro	Thr	Ser	Thr	Lys	Ser	Thr	Lys	Ile	Ser	Arg
65					70					75					80

4423

Ala

<210> 4871

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4871

Ala	Gly	Gln	Arg	His	Ser	Pro	Trp	Pro	Leu	Ile	Ala	Leu	Leu	Val	Arg
1				5					10					15	

Ala	Asp	Gly	Xaa	Pro	Arg	Ser	Val	Val	Pro	Ala	Trp	Xaa	Thr	Glu	Ala
			20					25					30		

Pro	Xaa	Ala	Thr	Leu	Glu	Xaa	Arg	Phe	Thr	Pro	His	Ala	Glu	Met	Asp
		35					40					45			

Leu	Gly	Gln	Leu	Ser	Ser	Gln	Asp	Val	Gly	Gln	Ala	Ser	Phe	Lys	Tyr
	50					55					60				

Phe	Gln	Ser	Ala	Glu	Glu	Ala	Lys	Arg	Ala	Ile	Glu	Ala	Val	Leu	Ser
65					70					75				80	

Ala	Asp	Pro	Arg	Ser	Val	Tyr	Arg	Arg	Lys	Leu	Cys	Gln	Asp	Arg	Leu
				85					90					95	

Phe	Tyr	Phe	Thr	Val	Asp	Ile	Ala	His	Val	Thr	Cys	Trp	Phe	Gly	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4424

100 105 110
 Gly Phe Ala Glu Val Leu Arg Ile Lys Pro Ala Ser Glu Pro Val His
 115 120 125
 Met Thr Gly Pro Val Gly Ser Leu Val Ser Leu Gly Ser
 130 135 140

 <210> 4872
 <211> 241
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4872
 Val Ser Val Gly Gly Leu Ile Xaa Asn Leu Ile Gly Ile Cys Ala Phe
 1 5 10 15
 Ser His Ala His Ser His Ala His Gly Ala Ser Gln Gly Ser Cys His
 20 25 30
 Ser Ser Asp His Ser His Ser His His Met His Gly His Ser Asp His
 35 40 45
 Gly His Gly His Ser His Gly Ser Ala Gly Gly Gly Met Asn Ala Asn
 50 55 60
 Met Arg Gly Val Phe Leu His Val Leu Ala Asp Thr Leu Gly Ser Ile
 65 70 75 80
 Gly Val Ile Val Ser Thr Val Leu Ile Glu Gln Phe Gly Trp Phe Ile
 85 90 95
 Ala Asp Pro Leu Cys Ser Leu Phe Ile Ala Ile Leu Ile Phe Leu Ser
 100 105 110
 Val Val Pro Leu Ile Lys Asp Ala Cys Gln Val Leu Leu Leu Arg Leu
 115 120 125
 Pro Pro Glu Tyr Glu Lys Glu Leu His Ile Ala Leu Glu Lys Ile Gln
 130 135 140
 Lys Ile Glu Gly Leu Ile Ser Tyr Arg Asp Pro His Phe Trp Arg His
 145 150 155 160

4425

Ser	Ala	Ser	Ile	Val	Ala	Gly	Thr	Ile	His	Ile	Gln	Val	Thr	Ser	Asp		
				165					170					175			
Val	Leu	Glu	Gln	Arg	Ile	Val	Gln	Gln	Val	Thr	Gly	Ile	Leu	Lys	Asp		
				180					185					190			
Ala	Gly	Val	Asn	Asn	Leu	Thr	Ile	Gln	Val	Glu	Lys	Glu	Ala	Tyr	Phe		
				195					200					205			
Gln	His	Met	Ser	Gly	Leu	Ser	Thr	Gly	Phe	His	Asp	Val	Leu	Ala	Met		
				210					215					220			
Thr	Lys	Gln	Met	Glu	Ser	Met	Lys	Tyr	Cys	Lys	Asp	Gly	Thr	Tyr	Ile		
225					230					235					240		
Met																	

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<210> 4873
<211> 375
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 4873
Ser Phe Gly Glu Arg Ala Pro Ser Thr Arg Ser Gly Asp Pro Leu Val
1 5 10 15

Ala Val Leu Pro Thr Arg Thr Arg Val Pro Gln Ala Ser Arg Cys Pro
20 25 30

Ala Gly Ser Ser Cys Pro Thr Pro Gly Ala Arg Pro Pro Ala Ser Pro
35 40 45

Gly Pro Leu Pro Arg Pro Ser Ser Arg Arg Ala Arg Ser Met Ala Pro
50 55 60

Pro Gln Val Leu Ala Phe Gly Leu Leu Leu Ala Ala Ala Thr Ala Thr
65 70 75 80

Phe Ala Ala Ala Gln Glu Glu Cys Val Cys Glu Asn Tyr Lys Leu Ala
85 90 95

Val Asn Cys Phe Val Asn Asn Asn Arg Gln Cys Gln Cys Thr Ser Val
100 105 110

4426

Gly Ala Gln Asn Thr Val Ile Cys Ser Lys Leu Ala Ala Lys Cys Leu
 115 120 125
 Val Met Lys Ala Glu Met Asn Gly Ser Lys Leu Gly Arg Arg Ala Lys
 130 135 140
 Pro Glu Gly Ala Leu Gln Asn Asn Asp Gly Leu Tyr Asp Pro Asp Cys
 145 150 155 160
 Asp Glu Ser Gly Leu Phe Lys Ala Lys Gln Cys Asn Gly Thr Ser Xaa
 165 170 175
 Cys Trp Cys Val Asn Thr Ala Gly Val Arg Arg Thr Asp Lys Asp Thr
 180 185 190
 Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile Ile Ile Glu
 195 200 205
 Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys Ser Leu Arg
 210 215 220
 Thr Ala Leu Gln Lys Glu Ile Thr Thr Arg Tyr Gln Leu Asp Pro Lys
 225 230 235 240
 Phe Ile Thr Ser Ile Leu Tyr Glu Asn Asn Val Ile Thr Ile Asp Leu
 245 250 255
 Val Gln Asn Ser Ser Gln Lys Thr Gln Asn Asp Val Asp Ile Ala Asp
 260 265 270
 Val Ala Tyr Tyr Phe Glu Lys Asp Val Lys Gly Glu Ser Leu Phe His
 275 280 285
 Ser Lys Lys Met Asp Leu Thr Val Asn Gly Glu Gln Leu Asp Leu Asp
 290 295 300
 Pro Gly Gln Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe
 305 310 315 320
 Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile Val Val Val
 325 330 335
 Val Ile Ala Val Val Ala Gly Ile Val Val Leu Val Ile Ser Arg Lys
 340 345 350
 Lys Arg Met Ala Lys Tyr Glu Lys Ala Glu Ile Lys Glu Met Gly Glu
 355 360 365
 Met His Arg Glu Leu Asn Ala
 370 375

4427

<210> 4874

<211> 106

<212> PRT

<213> Homo sapiens

<400> 4874

```

Ile Asn Gln Gln Leu Ala Leu Tyr Ile Trp Lys Ser Cys Arg His Ser
 1              5              10              15

Met Pro Ala Tyr Glu Ser Ser Leu Glu Trp Gly Cys Thr Leu Gln Arg
          20              25              30

His Arg Gly Arg Ala Ala Lys Thr Met Arg Val Tyr Phe Phe His Gln
          35              40              45

Cys Asp Leu Asn Val Arg His Arg Val Lys Gly Asp Tyr Phe Gly Ala
          50              55              60

Val Lys Phe Asn Glu Tyr Pro Ala Gly Phe Trp Thr Cys His Trp Leu
 65              70              75              80

Leu Ala Pro Leu Phe Cys Pro Ile Leu Leu Tyr Gly Met Gly Ala Ser
          85              90              95

Ser Ser Asn Ala Cys Thr Leu Ile Val Ser
          100              105

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<210> 4875

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4875

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Gln Ser Ala Met Ser Ser Arg Pro Leu Glu Ser Pro Pro Pro Tyr Arg
 1              5              10              15

Pro Asp Glu Phe Lys Pro Asn His Tyr Ala Pro Ser Asn Asp Ile Tyr
          20              25              30

Gly Gly Glu Met His Val Arg Pro Met Leu Ser Gln Pro Ala Tyr Ser
          35              40              45

Phe Tyr Pro Glu Asp Glu Ile Leu His Phe Tyr Lys Trp Thr Ser Pro
          50              55              60

Pro Gly Val Ile Arg Ile Leu Ser Met Leu Ile Ile Val Met Cys Ile

```

4428

65 70 75 80
Ala Ile Phe Ala Cys Val Ala Ser Arg Leu Pro
 85 90

<210> 4876
<211> 88
<212> PRT
<213> Homo sapiens

<400> 4876
Tyr Arg Lys Leu Phe Phe Pro Gln Leu Phe Glu Gln His Ser Ser Phe
1 5 10 15
Glu Asn Ser Cys Arg Ser Gln Phe Phe Val Thr Val Val Gln Ile Leu
 20 25 30
Cys Phe Leu Ser Leu Met Lys Ser Ser Ile Glu Ala Ile Phe His Thr
 35 40 45
Met Cys Tyr Ile Cys Val Arg Arg Cys Val Asn Ile Lys Ser His Thr
 50 55 60
His Ile Tyr Thr His Val Lys Ile Tyr Ile Tyr Ile Tyr Ala Cys Glu
65 70 75 80
Val Glu Ser Leu Pro Phe Pro Ile
 85

<210> 4877
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)

4429

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4877

Lys	Cys	Trp	Tyr	Tyr	Tyr	Phe	His	Tyr	Arg	Ala	Phe	Gly	Pro	Leu	Ile
1				5					10					15	
Met	Leu	Arg	Trp	Ala	Asp	Pro	Ser	Xaa	Phe	Cys	Xaa	Arg	Val	Ile	Leu
			20					25					30		
Gly	Arg	Val	Phe	Ser	Ser	Thr	Val	Lys	Val	Arg	Gln	Ser	Gly	Ser	Val
		35					40					45			
Thr	Gly	Asp	Trp	Asp	Ile	Trp	Asn	Lys	Leu	Arg	Trp	Asp	Thr	His	Ser
		50				55					60				
Glu	Glu	Arg	Leu	His	Gly	Ile	Leu	Trp	Gly	Thr	Asn	Tyr	Cys	Xaa	Ile
65					70					75					80
Thr	Ser	Asp	Val	Asn	Met	Ala	His								
				85											

<210> 4878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4878

Gly	Thr	Lys	Leu	Asp	Gly	His	Gln	Thr	Gln	Gly	Phe	Val	Lys	Ile	Arg
1				5					10					15	
Pro	Pro	Ile	Pro	Leu	Thr	Gly	Ser	Val	Arg	Cys	Val	Lys	Leu	Leu	Ser
			20					25					30		
Pro	Val	His	His	Ala	Ser	Met	Ser	Pro	Gln	Asp	Trp	Asp	Leu	Ser	Leu
		35					40					45			
Pro	Gly	Ser	Leu	Ser	Leu	Gly	Ala	Asp	Met	Glu	Pro	Ser	Leu	Arg	Asp
		50				55					60				
Gln	Val	Asp	Ala	Glu	Ala	His	Pro	Val	Arg	Ala	Pro	Leu	Leu	Ala	Pro
65					70					75					80
Phe	Thr	Leu	Lys	Leu	Ile										
				85											

<210> 4879

<211> 106

4430

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4879

Phe	Cys	Ser	Trp	Phe	Ser	Leu	Gln	Ala	Leu	Ala	Lys	Pro	Cys	Pro	Arg
1				5					10					15	

Ser	Pro	Gln	Thr	Leu	Arg	Ala	His	Asp	Gln	Lys	Glu	Lys	Glu	Ser	Gln
		20						25					30		

Val	Gly	Glu	Glu	Gln	Gly	Pro	Gln	Leu	His	Ser	Pro	Pro	Leu	Xaa	Pro
	35						40					45			

Glu	Gly	Pro	Pro	Trp	Ala	Ala	Trp	Asn	Pro	Leu	Lys	Leu	Pro	Pro	Pro
	50					55					60				

Gln	His	Ser	Ser	Gly	Ala	Val	Pro	Gly	Ser	Ala	Cys	Ser	Pro	Trp	Ala
65					70					75				80	

Gly	Ser	Val	Pro	Ala	Ala	Pro	Pro	Ser	Val	Cys	Tyr	Leu	Ile	Tyr	Trp
				85				90						95	

Asn	Leu	His	Ser	Gln	Ala	Leu	Ala	His	Arg
			100					105	

<210> 4880

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4880

Asn	Val	Ala	Cys	Asn	Thr	Val	Leu	Pro	Ala	Lys	Phe	Ser	Thr	Phe	Cys
1				5					10					15	

Asn	Leu	Phe	Tyr	Phe	Phe	Gly	Cys	Lys	Ala	Phe	Leu	Leu	Ser	Ile	Val
			20					25					30		

Ile	Leu	Tyr	Met	Phe	Cys	Pro	Ser	Cys	Ile	Val	Met	Phe	Gln	Ser	Ile
	35						40					45			

Ile	Gln	Leu	Trp	Leu	Leu	Lys	Ser	Tyr	Ser	Cys	Glu	Asp	Leu	Pro	Leu
	50					55					60				

Phe	Leu	Leu	Asp	Cys	Phe	Ser	Val	Leu	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4431

65

70

<210> 4881

<211> 201

<212> PRT

<213> Homo sapiens

<400> 4881

Cys Asn Leu Ala Lys Gly Val Ile Ser Ile Ser Phe Leu Lys Glu Glu

1

5

10

15

Glu Gln Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg

20

25

30

Gln Ala Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly

35

40

45

His Ser Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val

50

55

60

Ser Thr His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp

65

70

75

80

Tyr Pro Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg

85

90

95

Gln Ile Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr

100

105

110

Glu Glu Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg

115

120

125

Arg Asn Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro

130

135

140

Glu Leu Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys

145

150

155

160

Ala Thr Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile

165

170

175

Ser Glu Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys

180

185

190

Leu Glu Gln Leu Arg Asn Ser Cys Ala

195

200

4432

<210> 4882

<211> 60

<212> PRT

<213> Homo sapiens

<400> 4882

Lys Gly Ile Val Arg Met Ser Leu Ser Ser Gly Ser Thr Thr Ala Val
 1 5 10 15

Ser Tyr Leu Gly Pro Val Leu Ser Gln Gly Gly Trp Leu Val Lys Val
 20 25 30

Met Cys Asp Leu Arg Arg Leu Ser Cys His Leu Pro His Val Asn Arg
 35 40 45

Lys Gly Gly Ile Leu Pro Pro Pro Glu Tyr Thr Gly
 50 55 60

<210> 4883

<211> 737

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (555)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (602)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4883

Pro Pro Arg Gly Leu Asp Pro Gly Ser Cys Cys Cys Cys Arg Cys Cys
 1 5 10 15

Cys Pro Leu Arg Pro Gln Pro Pro Thr Gly Pro Gly Ala Ala Asp Pro
 20 25 30

Val Asn Pro Glu Lys Leu Leu Val Ile Thr Val Ala Thr Ala Glu Thr
 35 40 45

Glu Gly Tyr Leu Arg Phe Leu Arg Ser Ala Glu Phe Phe Asn Tyr Thr
 50 55 60

Val Arg Thr Leu Gly Leu Gly Glu Glu Trp Arg Gly Gly Asp Val Ala
 65 70 75 80

4433

Arg	Thr	Val	Gly	Gly	Gly	Gln	Lys	Val	Arg	Trp	Leu	Lys	Lys	Glu	Met	85	90	95	
Glu	Lys	Tyr	Ala	Asp	Arg	Glu	Asp	Met	Ile	Ile	Met	Phe	Val	Asp	Ser	100	105	110	
Tyr	Asp	Val	Ile	Leu	Ala	Gly	Ser	Pro	Thr	Glu	Leu	Leu	Lys	Lys	Phe	115	120	125	
Val	Gln	Ser	Gly	Ser	Arg	Leu	Leu	Phe	Ser	Ala	Glu	Ser	Phe	Cys	Trp	130	135	140	
Pro	Glu	Trp	Gly	Leu	Ala	Glu	Gln	Tyr	Pro	Glu	Val	Gly	Thr	Gly	Lys	145	150	155	160
Arg	Phe	Leu	Asn	Ser	Gly	Gly	Phe	Ile	Gly	Phe	Ala	Thr	Thr	Ile	His	165	170	175	
Gln	Ile	Val	Arg	Gln	Trp	Lys	Tyr	Lys	Asp	Asp	Asp	Asp	Asp	Gln	Leu	180	185	190	
Phe	Tyr	Thr	Arg	Leu	Tyr	Leu	Asp	Pro	Gly	Leu	Arg	Glu	Lys	Leu	Ser	195	200	205	
Leu	Asn	Leu	Asp	His	Lys	Ser	Arg	Ile	Phe	Gln	Asn	Leu	Asn	Gly	Ala	210	215	220	
Leu	Asp	Glu	Val	Val	Leu	Lys	Phe	Asp	Arg	Asn	Arg	Val	Arg	Ile	Arg	225	230	235	240
Asn	Val	Ala	Tyr	Asp	Thr	Leu	Pro	Ile	Val	Val	His	Gly	Asn	Gly	Pro	245	250	255	
Thr	Lys	Leu	Gln	Leu	Asn	Tyr	Leu	Gly	Asn	Tyr	Val	Pro	Asn	Gly	Trp	260	265	270	
Thr	Pro	Glu	Gly	Gly	Cys	Gly	Phe	Cys	Asn	Gln	Asp	Arg	Arg	Thr	Leu	275	280	285	
Pro	Gly	Gly	Gln	Pro	Pro	Pro	Arg	Val	Phe	Leu	Ala	Val	Phe	Val	Glu	290	295	300	
Gln	Pro	Thr	Pro	Phe	Leu	Pro	Arg	Phe	Leu	Gln	Arg	Leu	Leu	Leu	Leu	305	310	315	320
Asp	Tyr	Pro	Pro	Asp	Arg	Val	Thr	Leu	Phe	Leu	His	Asn	Asn	Glu	Val	325	330	335	
Phe	His	Glu	Pro	His	Ile	Ala	Asp	Ser	Trp	Pro	Gln	Leu	Gln	Asp	His	340	345	350	

4434

Phe Ser Ala Val Lys Leu Val Gly Pro Glu Glu Ala Leu Ser Pro Gly
 355 360 365
 Glu Ala Arg Asp Met Ala Met Asp Leu Cys Arg Gln Asp Pro Glu Cys
 370 375 380
 Glu Phe Tyr Phe Ser Leu Asp Ala Asp Ala Val Leu Thr Asn Leu Gln
 385 390 395 400
 Thr Leu Arg Ile Leu Ile Glu Glu Asn Arg Lys Val Ile Ala Pro Met
 405 410 415
 Leu Ser Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu Ser
 420 425 430
 Pro Asp Glu Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Glu Leu Val Gln
 435 440 445
 Arg Lys Arg Val Gly Val Trp Asn Val Pro Tyr Ile Ser Gln Ala Tyr
 450 455 460
 Val Ile Arg Gly Asp Thr Leu Arg Met Glu Leu Pro Gln Arg Asp Val
 465 470 475 480
 Phe Ser Gly Ser Asp Thr Asp Pro Asp Met Ala Phe Cys Lys Ser Phe
 485 490 495
 Arg Asp Lys Gly Ile Phe Leu His Leu Ser Asn Gln His Glu Phe Gly
 500 505 510
 Arg Leu Leu Ala Thr Ser Arg Tyr Asp Thr Glu His Leu His Pro Asp
 515 520 525
 Leu Trp Gln Ile Phe Asp Asn Pro Val Asp Trp Lys Glu Gln Tyr Ile
 530 535 540
 His Glu Asn Tyr Ser Arg Ala Leu Glu Gly Xaa Gly Ile Val Glu Gln
 545 550 555 560
 Pro Cys Pro Asp Val Tyr Trp Phe Pro Leu Leu Ser Glu Gln Met Cys
 565 570 575
 Asp Glu Leu Val Ala Glu Met Glu His Tyr Gly Gln Trp Ser Gly Gly
 580 585 590
 Arg His Glu Asp Ser Arg Leu Ala Gly Xaa Tyr Glu Asn Val Pro Thr
 595 600 605
 Val Asp Ile His Met Lys Gln Val Gly Tyr Glu Asp Gln Trp Leu Gln
 610 615 620

4435

Leu Leu Arg Thr Tyr Val Gly Pro Met Thr Glu Ser Leu Phe Pro Gly
625 630 635 640

Tyr His Thr Lys Ala Arg Ala Val Met Asn Phe Val Val Arg Tyr Arg
645 650 655

Pro Asp Glu Gln Pro Ser Leu Arg Pro His His Asp Ser Ser Thr Phe
660 665 670

Thr Leu Asn Val Ala Leu Asn His Lys Gly Leu Asp Tyr Glu Gly Gly
675 680 685

Gly Cys Arg Phe Leu Arg Tyr Asp Cys Val Ile Ser Ser Pro Arg Lys
690 695 700

Gly Trp Ala Leu Leu His Pro Gly Arg Leu Thr His Tyr His Glu Gly
705 710 715 720

Leu Pro Thr Thr Trp Gly Thr Arg Tyr Ile Met Val Ser Phe Val Asp
725 730 735

Pro

<210> 4884

<211> 73

<212> PRT

<213> Homo sapiens

<400> 4884

Glu Thr Thr Lys Glu Tyr His Glu Gly Ile Tyr Ala Pro Val Leu Ala
1 5 10 15

Ile Ile Cys Leu Arg Arg Asn Leu Leu Asn Lys Ser Phe Tyr Pro Leu
20 25 30

Thr Phe Thr Phe Ile Arg Pro Tyr Lys Arg Ser Asn Gly Asp Leu Lys
35 40 45

Phe Phe Ser His Lys Ser Tyr Leu Phe Ser Ile Ser Ala Lys Ser Arg
50 55 60

Ile Leu Ser Ser Lys Pro Lys Leu Thr
65 70

<210> 4885

<211> 76

4436

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4885

Arg	Lys	Lys	Pro	Ile	Tyr	Ile	Asn	Val	Xaa	Arg	Asp	Pro	Ile	Glu	Arg
1				5					10					15	

Leu	Val	Ser	Tyr	Tyr	Tyr	Phe	Leu	Arg	Xaa	Gly	Asp	Asp	Tyr	Arg	Pro
			20					25					30		

Gly	Leu	Arg	Arg	Arg	Lys	Gln	Gly	Asp	Lys	Lys	Thr	Phe	Asp	Glu	Cys
		35				40						45			

Val	Ala	Glu	Gly	Gly	Ser	Asp	Cys	Ala	Pro	Glu	Lys	Leu	Trp	Leu	Gln
	50					55					60				

Ile	Pro	Phe	Phe	Cys	Gly	His	Ser	Ser	Glu	Cys	Trp
65					70					75	

<210> 4886

<211> 94

<212> PRT

<213> Homo sapiens

<400> 4886

Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro
1				5					10					15	

Lys	Glu	Glu	Gly	Gly	Lys	Pro	Gln	Met	Asn	Ser	Glu	Gly	Glu	Ile	Pro
			20					25					30		

Ser	Leu	Pro	Ser	Gly	Ser	Gln	Ser	Ala	Lys	Pro	Val	Ser	Gln	Pro	Arg
		35				40						45			

Lys	Ser	Thr	Gln	Pro	Asp	Val	Cys	Ala	Ser	Pro	Gln	Glu	Lys	Pro	Leu
	50					55					60				

Arg	Thr	Leu	Phe	His	Gln	Pro	Glu	Glu	Glu	Ile	Glu	Asp	Gly	Gly	Leu
65					70					75					80

Phe Ile Pro Met Glu Asp Lys Thr Met Lys Lys Val Arg Lys
85 90

Val Ser Pro
35

<220>
<221> SITE
<222> (63)

4438

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4888

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Thr Arg Tyr
20 25 30

Pro Gln Gly His Ser Asp Thr Thr Val Ala Ile Ser Thr Ser Thr Val
35 40 45

Leu Leu Cys Xaa Leu Ser Ala Val Ser Leu Leu Ala Cys Tyr Xaa Lys
50 55 60

Ser Arg Gln Thr Pro Pro Leu Ala Ser Val Glu Met Glu Ala Met Glu
65 70 75 80

Ala Leu Pro Val Thr Trp Gly Thr Ser Ser Arg Asp Glu Asp Leu Glu
85 90 95

Asn Cys Ser His His Leu
100

<210> 4889

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4889

Leu Ser Gln Ser Gln Leu Asn Arg His Leu Asn Cys Ile Cys Lys Ile
1 5 10 15

Leu Ser Leu Leu Pro Tyr Ser Leu Thr Lys Cys Asn Arg Arg Cys Pro
20 25 30

His Lys Gly Met Asp Ile Gly Leu Gly Lys Asp Phe Arg Asn His Leu
35 40 45

Arg Ile Leu Pro Thr Thr Asn Ser Ile Leu Gln Val Ser Ile Ser Ser
50 55 60

Ile Leu Val Ile His
65

<210> 4890

<211> 75

4439

<212> PRT

<213> Homo sapiens

<400> 4890

Phe Val Ser Glu Gly Asp Phe Pro Ser Tyr Thr Leu Gly Leu Glu Asp
1 5 10 15

Phe Glu Tyr Leu Gly Pro Phe Ser Cys Glu His Gly Leu Phe Pro His
20 25 30

Ser Ser Tyr Leu Leu Thr Arg Gly Ile Leu Gly Arg Asp Leu Arg Ser
35 40 45

Ser Phe Ser Cys Phe Pro Glu Gln Ser Leu Lys Phe Thr Val Asn Lys
50 55 60

Leu Phe Asp His Glu Lys Lys Lys Lys Ser Thr
65 70 75

<210> 4891

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4891

Gly Ala Ala Leu Leu Ile Trp Gly Val Ser Arg Leu Ser Ala Leu Thr
1 5 10 15

Leu Leu Xaa His Pro Xaa Thr Asp Lys Val Arg Leu Gln Arg Arg Val

4440

			20					25					30		
Thr	Pro	Met	Cys	Tyr	Ser	Phe	Phe	Xaa	Thr	Ser	Phe	Thr	Gly	Asp	Asn
		35					40					45			
Ala	His	Thr	Val	Gln	Phe	Thr	His	Leu	Lys	Cys	Thr	Ile	Gln	Trp	Val
	50					55					60				
Leu	Val	Tyr	Ser	Trp	Gly	Leu	Cys	Asn	Pro	Xaa	Pro				
65					70					75					

<210> 4892

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4892

Glu Glu Gly Leu Arg Asn Lys Lys Ala Lys Glu Pro Phe Glu Glu Ala
1 5 10 15

Ser Cys Leu Leu Gly Ala Gly Val Cys Ala Gly Val Val Leu Arg Gly
20 25 30

Arg Lys Glu Pro Xaa Ser Pro Glu Asp Pro Pro Gly Gly Ala Gly Leu
35 40 45

Lys Phe Arg Trp Val Pro Gly Gly Ser Ala Leu Arg Ser Thr Asp Gly
50 55 60

Leu Arg Ser Gln Cys Ala Ala Arg Thr Ser Arg Ser Gly Gly Arg Val
65 70 75 80

Leu Pro Thr Pro Ala Leu Gly Ser Glu Lys Ala Ala Leu Val Leu Phe
85 90 95

Leu Gly Met Ser Ala Glu Gly Ala Pro Gly
100 105

<210> 4893

<211> 190

<212> PRT

<213> Homo sapiens

4441

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4893

Arg	His	Arg	Gln	Gln	Gln	Lys	Ala	His	Cys	Pro	His	Pro	Leu	Thr	Leu
1				5					10					15	

Asn	Phe	Leu	Ser	Leu	Phe	Lys	Ile	Leu	Ala	Ser	Asp	Cys	Ser	Ala	Ala
			20					25					30		

Xaa	Asn	Phe	Leu	Val	Pro	Ser	Trp	Gly	Xaa	Trp	Gly	Gly	Val	Tyr	Arg
			35				40					45			

Leu	Phe	Ser	Ala	Ser	Ala	Leu	Leu	Ser	Gln	Gly	Phe	Glu	Pro	Leu	Arg
	50					55					60				

Phe	Ser	Gly	Gln	Thr	Arg	Lys	Asn	Glu	Asn	Thr	Ala	Trp	Gly	Ala	Pro
65					70					75					80

Thr	Ser	Arg	Arg	Leu	Cys	Gln	Leu	Thr	Ser	Gly	His	Gly	Ala	Ala	Ala
				85					90					95	

Gly	Ala	His	Gly	Gly	Gln	Gly	Gln	Leu	His	Ile	Leu	Pro	Ser	Pro	Ser
			100					105					110		

His	Phe	Thr	Val	Ala	Pro	Asn	Pro	Ala	Arg	Arg	Glu	Arg	Val	Ser	Ala
			115				120					125			

Pro	Gln	Thr	Thr	Gly	Ser	Leu	Leu	Thr	Lys	Asn	Gly	Glu	Thr	Arg	Phe
	130					135					140				

His	Leu	Ser	Ala	Glu	Glu	Pro	Gln	Ala	Gly	Leu	Ser	Glu	Arg	Asp	Gly
145					150					155					160

Ala	Gly	Gly	Arg	Leu	Trp	Ile	Ala	Ser	Gln	Ile	Lys	Leu	Cys	Ser	Leu
				165					170					175	

Asn	Val	Ala	Ser	Arg	Gln	Glu	Lys	Ala	Trp	Gly	Leu	Asn	Ser		
			180					185					190		

<210> 4894

4442

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4894

Gly Asp Lys Asn Val Leu Lys Phe Ile Val Met Met Leu Ala Ile Ser
 1 5 10 15

Ile Ser Arg Leu Asn Ala Val Met Val Ala Asn Ser Ile Asn Ile Phe
 20 25 30

Asn Val Val Met Val Ala Asn Ser Met Lys Asn Pro Asn Cys Thr Ile
 35 40 45

Ser Met Ser Glu Ser Met Leu Cys Glu Cys Leu His Lys Gly Phe Ile
 50 55 60

<210> 4895

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4895

Thr Val Pro Arg Pro Arg Pro Asp Phe Ser His Ala Pro Pro Ser Thr
 1 5 10 15

Ser Ala Leu Gly Cys Leu Gly Arg Glu Arg Arg Arg Gly Ala Trp Arg
 20 25 30

Gly Thr Pro Gly Gln Asn Asp Ser Gly Met Ser Arg Glu Arg Lys Glu
 35 40 45

Ala Pro Trp Asp Ala Gly Gly Arg Val Leu Gly Pro Gly Leu Gln Pro
 50 55 60

Arg Thr Gly Ala Thr Ala Gly Pro Ser Pro Asp Arg Pro Arg Ala Gly
 65 70 75 80

Gly Gln Ala Arg Val Arg Cys Ala Ala Arg Pro Arg Ser Leu Thr Thr
 85 90 95

Val Pro Thr His Arg Gly Gly Pro
 100

4443

<210> 4896

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4896

Leu Leu Ile Pro Met Pro Leu Cys Asp Pro Ile Leu Asn Thr Ala Arg
 1 5 10 15

Ala Val Phe Gln Gln His Ser Ser Asn Leu Val Ser Ser Pro Leu Leu
 20 25 30

His Ala Ser Val Ala Phe Pro Val Thr Trp His Gly Thr Arg Pro Gln
 35 40 45

Leu Pro Tyr Ile Pro Ala Asn Ser Tyr Pro Thr Phe Leu Cys Ser His
 50 55 60

Ser Phe Leu Phe Leu Pro His
 65 70

<210> 4897

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4897

Gly Cys Gly Gly Phe Gln Cys Val Glu Trp Lys Gly Asn Cys Arg Ile
 1 5 10 15

Val Ser Ala Pro His Ser Glu Gly Leu Leu Pro Val Pro Pro Arg Pro
 20 25 30

Gly Ala Ser Thr Ala Ser Pro His Ser Thr Gln Met Pro Arg Ser Ser
 35 40 45

Glu Leu Val Tyr Glu Lys Ser Pro Thr Phe Ser Pro Lys Thr Ser Leu
 50 55 60

Leu Ser Leu His Lys Lys Lys Arg Lys Gly Thr Lys Glu Lys His Ser
 65 70 75 80

Val Phe Leu Phe Leu Lys Lys Val Ser Pro Phe Leu Lys Ser Ser Asn
 85 90 95

Glu Thr Leu Ser Gly Asn
 100

4444

<210> 4898

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4898

Pro Gln Gln Xaa Thr Ser Gln Glu Val Glu Asn Ser Lys Gln Glu Lys
1 5 10 15

Tyr Gln Asn Asn Tyr Thr Gln Thr Ser Glu Asn Gln Arg Gln Lys Glu
20 25 30

Asn Leu Gln Arg Ser Gln Arg Lys Ser Asn Leu Thr Tyr Ser Lys Thr
35 40 45

Gly Gln Glu Leu Asn
50

<210> 4899

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4899

Gly Asn Asn Cys Arg Ser Ile Glu Val Thr Ala Lys Ile Phe Tyr Ser
1 5 10 15

Asn Trp Val Asn Pro Val Asn His Val Arg Asn Ser Ser Pro Arg Val
20 25 30

Ser Met Leu Leu Leu Tyr Phe Cys Lys His Asn Pro Leu Thr
35 40 45

<210> 4900

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

4445

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4900

Leu Leu Phe Asn Leu Pro Ile Glu Leu Leu Gly Phe Lys Lys Tyr Phe
1 5 10 15

Xaa Asn Asp Phe Leu Gly Leu Glu Ser Thr Phe Asn Thr Phe Lys Leu
20 25 30

Val Phe Leu Leu Glu Ile Phe Arg Ile Ser Ser Leu Ile Gly Asn Leu
35 40 45

Tyr Arg Ser Leu Val Arg Phe Val Ala Lys Met Cys His Arg Trp Thr
50 55 60

Gln Ile Ser His Ser Gly Ala Ile Ser Tyr His Ser Gly Gly
65 70 75

<210> 4901

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4901

Cys Leu Xaa Tyr Phe Xaa Met Asp Ile Glu Val Lys Met Ser Phe Ile
1 5 10 15

Cys Ile Tyr Leu Gly Lys Glu Asp Met Leu Leu Lys Gln Gly Gln Met
20 25 30

Tyr Met Ala Asp Ser Gln Cys Thr Ser Pro Gly Tyr Pro Gly Pro Met
35 40 45

<210> 4902

4446

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4902

Arg	Lys	His	Lys	Ala	Ile	Arg	Leu	Ile	Ser	Gly	Glu	Leu	His	Thr	Glu
1				5					10					15	

Gly	Glu	Xaa	Lys	Phe	Leu	Ser	Pro	Trp	Ser	Thr	Pro	Ser	Xaa	Xaa	Ser
			20					25					30		

Glu	Arg	Val	Pro	Phe	Met	Ser	Asn	Thr	Ala	Ser	His
		35					40				

<210> 4903

<211> 42

<212> PRT

<213> Homo sapiens

<400> 4903

Ser	Tyr	His	Ser	Val	Ser	Gly	Phe	Leu	Val	Val	Tyr	Thr	Phe	Thr	Ile
1				5				10						15	

Met	Ala	Lys	Cys	Phe	Lys	Ile	Ile	Gln	Leu	Phe	Lys	Glu	Thr	Tyr	Tyr
			20					25					30		

Ala	Lys	Asp	Thr	Leu	Glu	Met	Leu	Cys	Ile
		35					40		

<210> 4904

<211> 103

<212> PRT

4447

<213> Homo sapiens

<400> 4904

Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg

1

5

10

15

Val Arg Ser Val Pro Leu Trp Leu Leu Ser His Leu Lys Asn Asp Pro

20

25

30

Ser Gly Pro Phe Pro Pro Pro Cys Pro Leu Pro His Thr Ser Arg Phe

35

40

45

Pro Val Arg Gln Gln Val Gln Arg Leu Gln Asp Leu Ala Leu Leu Ser

50

55

60

Leu Leu Glu Pro Leu Lys Glu Lys Ala Gly Phe Glu Leu Phe Ala Phe

65

70

75

80

Glu Ser Trp Arg His Lys Arg Tyr Leu Gly Tyr Arg Ser Arg Arg Arg

85

90

95

Glu Arg Thr Pro Arg Ser Asn

100

<210> 4905

<211> 78

<212> PRT

<213> Homo sapiens

<400> 4905

Phe Tyr Phe Ser Ser Lys Ser Leu Phe His Thr Cys Lys Ile Leu Gly

1

5

10

15

Arg Arg Phe Leu Lys Leu Cys Gln Glu Leu Leu Pro Ile Ser Lys Asn

20

25

30

Ser Leu Leu Cys Ser Lys Thr Thr Ile Ser Leu Arg Asp Cys Leu Lys

35

40

45

Gly Glu Arg Ala Thr Arg Glu Ile Ile His Ser Ala His Arg Asn Tyr

50

55

60

Cys Ser Ser Gly Leu Pro Ala Thr Val Phe Arg Cys Trp Val

65

70

75

<210> 4906

<211> 219

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<212> PRT
<213> Homo sapiens
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<400> 4906
Lys Val Asp Lys Gln Leu Phe Pro Pro Ser Tyr Gln Glu Lys Cys Ser
1 5 10 15

Leu Gly Thr Lys Lys Asn Leu Xaa His Val Asn Lys Ile Leu Lys Ala
35 40 45

Lys Lys Leu Gln Arg Gln Ala Arg Thr Gly Asn Asn Phe Val Lys Arg
50 55 60

Arg	Pro	Gly	Arg	Pro	Arg	Lys	Cys	Pro	Leu	Gln	Ala	Val	Val	Ser	Met
65					70					75					80

Gln Ala Phe Gln Ala Ala Gln Phe Val Asn Pro Glu Leu Asn Arg Asp
85 90 95

Glu Glu Gly Ala Ala Leu His Leu Ser Pro Asp Thr Val Thr Asp Val
100 105 110

Ile Glu Ala Val Val Gln Ser Val Asn Leu Asn Pro Glu His Lys Lys
115 120 125

Gly Leu Lys Arg Lys Gly Trp Leu Leu Glu Glu Gln Thr Arg Lys Lys
130 135 140

Gln Lys Pro Leu Pro Glu Glu Glu Glu Gln Glu Asn Asn Lys Ser Phe
145 150 155 160

Asn Glu Ala Pro Val Glu Ile Pro Ser Pro Ser Glu Thr Pro Ala Lys
165 170 175

Pro Ser Glu Pro Glu Ser Thr Leu Gln Pro Val Leu Ser Leu Ile Pro
180 185 190

Arg Glu Lys Lys Pro Pro Arg Pro Pro Lys Lys Lys Tyr Gln Lys Ala
195 200 205

Gly Leu Tyr Ser Asp Val Tyr Lys Thr Thr Glu
210 215

4449

<210> 4907

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4907

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Ser His Cys Thr Val Asn Ser Lys Lys Ile Glu Glu Leu Phe Trp His
 1              5              10              15

Leu Lys Thr Ile Thr Gln Phe Ser Arg Glu Val Thr Asp Lys Arg Asp
              20              25              30

His Thr Asp Cys Phe Val Val Leu Val Leu Ser Tyr Ser Leu Met Gln
              35              40              45

Ile Arg Thr Phe Thr Ser Ile Cys Val Gly Pro Thr Leu Pro Gly Gln
              50              55              60

Ile Gln Leu Gln Ser Pro Cys Arg Tyr Glu Phe Ser Arg Asn Glu Pro
              65              70              75              80

Met Phe Ser Ala Arg Ile Asn Trp Ser Tyr Thr Ile Tyr Lys Asn Glu
              85              90              95

Tyr Cys Ile Leu Tyr Leu
              100

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<210> 4908

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4908

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Gly Xaa Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1              5              10              15

Pro Arg Val Arg Gly Ser Pro Leu Leu Cys Ala Leu Ser Ser Val Met
              20              25              30

Arg Arg Glu Pro Phe Ala Val Cys Ser Val Gln Cys His Glu Thr Gly
              35              40              45

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4450

Ala Leu Cys Cys Val Leu Cys Pro Val Ser
 50 55

<210> 4909

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4909

Ala Arg Pro Ser Leu Arg Thr Cys Tyr Pro Arg Gly Asn Ile Thr Met
 1 5 10 15

Ser Glu Ala Pro Arg Ala Glu Thr Phe Val Phe Leu Asp Leu Glu Ala
 20 25 30

Thr Gly Leu Pro Ser Val Glu Pro Glu Ile Ala Glu Leu Ser Leu Phe
 35 40 45

Ala Val His Arg Ser Ser Leu Glu Asn Pro Glu His Asp Glu Ser Gly

4451

50	55	60
Ala Leu Xaa Leu Pro Arg Val Leu Asp Lys Leu Thr Leu Cys Met Cys		
65	70	75 80
Pro Glu Arg Pro Phe Thr Ala Lys Ala Ser Glu Ile Thr Gly Leu Ser		
	85	90 95
Ser Glu Gly Leu Ala Arg Cys Arg Lys Ala Gly Phe Asp Gly Ala Xaa		
	100	105 110
Val Arg Thr Leu Gln Ala Phe Leu Ser Arg Gln Ala Gly Pro Ile Cys		
	115	120 125
Leu Val Ala His Asn Gly Phe Asp Tyr Asp Phe Pro Leu Leu Cys Ala		
	130	135 140
Glu Leu Arg Xaa Leu Gly Ala Arg Leu Pro Arg Asp Thr Val Cys Leu		
	145	150 155 160
Asp Thr Leu Pro Ala Leu Arg Gly Leu Asp Arg Ala His Lys Pro Arg		
	165	170 175
Xaa Pro Gly Pro Gly Pro Xaa Arg Val Thr Ser Leu Gly Lys Leu Phe		
	180	185 190
Pro Pro Xaa Leu Ser Gly Lys Thr		
	195	200

<210> 4910

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4910

Pro Arg Val Ser Leu Pro Phe Arg Glu Arg Ala Glu Val Leu Thr Leu		
1	5	10 15
Val Ala Cys Cys His Leu Ser Leu Ala Ser Ala Leu Val His Pro His		
	20	25 30
Ser Thr Leu Arg Ser His Ser His His Gln Arg Leu Asn Pro Lys Ala		
	35	40 45
Leu Gln Asp Leu Lys Val Pro Ser Glu Ala Ser Glu Ile Lys Tyr Cys		
	50	55 60
Ser Asn		
65		

4452

<210> 4911
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4911
 Lys Gln Lys His Ile Tyr Phe Lys Lys Tyr Thr Ser Xaa Tyr Glu Ile
 1 5 10 15
 Phe Ser Phe Glu Cys Met Leu Lys Trp Xaa Xaa Ser Arg Ile Ser Tyr
 20 25 30
 Asn Thr Gly Tyr Leu Glu Thr Arg Tyr
 35 40

<210> 4912
 <211> 255
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4912
 Arg Glu Lys Ser Thr Phe Glu Cys Ser Glu Cys Gly Lys Ala Phe Ser
 1 5 10 15
 Tyr Leu Ser Asn Leu Asn Gln His Gln Lys Thr His Thr Gln Glu Lys
 20 25 30

4453

Ala Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile Arg Ser Ser Ser
 35 40 45
 Leu Ala Lys His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys
 50 55 60
 Xaa Glu Cys Gly Lys Thr Phe Ser Tyr Gly Ser Ser Leu Ile Gln His
 65 70 75 80
 Arg Lys Ile His Thr Gly Glu Arg Pro Tyr Lys Cys Asn Glu Cys Gly
 85 90 95
 Arg Ala Phe Asn Gln Asn Ile His Leu Thr Gln His Lys Arg Ile His
 100 105 110
 Thr Gly Ala Lys Pro Tyr Glu Cys Ala Glu Cys Gly Lys Ala Phe Arg
 115 120 125
 His Cys Ser Ser Leu Ala Gln His Gln Lys Thr His Thr Glu Glu Lys
 130 135 140
 Pro Tyr Gln Cys Asn Lys Cys Glu Lys Thr Phe Ser Gln Ser Ser His
 145 150 155 160
 Leu Thr Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys
 165 170 175
 Asn Glu Cys Asp Lys Ala Phe Ser Arg Ser Thr His Leu Thr Glu His
 180 185 190
 Gln Asn Thr His Thr Gly Glu Lys Pro Tyr Asn Cys Asn Glu Cys Arg
 195 200 205
 Lys Thr Phe Ser Gln Ser Thr Tyr Leu Ile Gln His Gln Arg Ile His
 210 215 220
 Ser Gly Glu Lys Pro Phe Gly Cys Asn Asp Cys Gly Lys Ser Phe Arg
 225 230 235 240
 Tyr Arg Ser Ala Leu Asn Lys His Gln Arg Leu His Pro Gly Ile
 245 250 255

<210> 4913

<211> 118

<212> PRT

<213> Homo sapiens

<220>

4454

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4913

Leu Leu Glu Ala Gln Ala Gly Glu Gly Gly Arg Val Ser Arg Arg Ala
 1 5 10 15

Pro Leu Ser Leu Thr Gln Arg Ser Cys Val Phe Leu Val Lys Pro Ser
 20 25 30

His Ala Arg Gly Pro Ile Ala Ser Ser Pro Pro Ser Leu Pro Thr Asn
 35 40 45

Ile Pro Ser Pro Asp Pro Asn Ser Pro Pro His Tyr Pro Ala Leu Asp
 50 55 60

Leu Gly Asn Val Phe Leu Tyr Phe Asn Ile Ala Gln Gly Lys Asn Thr
 65 70 75 80

Tyr Ile Leu Arg Asp Leu Gly Trp Gly Lys Gln Lys Pro Cys Gly Val
 85 90 95

Xaa Lys Thr Lys Ala Tyr Phe Tyr Lys Cys Leu Met Phe Ser Pro Pro
 100 105 110

Gly Cys Ser Glu Thr Pro
 115

<210> 4914

<211> 186

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

4455

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4914

Arg Ile Ser Gln Cys Leu Gly Arg Gly Glu Val Gln Glu Cys Val Leu
 1 5 10 15

Arg Leu Asn His Ile Ile Leu Gln Arg Xaa Trp Ala Ala Arg His Ile
 20 25 30

Val Asn Arg Ile Asn Ala Phe Lys Pro Thr Ala Asp Arg Pro Phe Val
 35 40 45

Leu Gly Leu Pro Thr Gly Gly Thr Pro Met Thr Thr Tyr Lys Ala Leu
 50 55 60

Val Glu Met His Lys Ala Gly Gln Val Ser Phe Lys His Val Val Thr
 65 70 75 80

Phe Asn Met Asp Glu Tyr Val Gly Leu Pro Lys Glu His Pro Glu Ser
 85 90 95

Tyr Tyr Ser Phe Met His Arg Asn Phe Phe Asp His Val Asp Ile Pro
 100 105 110

Ala Glu Asn Ile Asn Leu Leu Asn Gly Asn Ala Pro Asp Ile Asp Ala
 115 120 125

Glu Cys Arg Gln Tyr Glu Xaa Lys Ile Arg Ser Tyr Gly Lys Ile His
 130 135 140

Leu Phe Met Gly Gly Val Xaa Asn Asp Gly His Ile Ala Phe Asn Glu
 145 150 155 160

Pro Ala Ser Ser Leu Ala Ser Arg Thr Arg Ile Lys Thr Leu Thr His
 165 170 175

Xaa His Ser Arg Arg Lys Leu Ser Phe Leu
 180 185

<210> 4915

<211> 141

<212> PRT

<213> Homo sapiens

<400> 4915

Gly Ile Leu Phe Ile Tyr Leu Asp Gly Ala Phe Asp Leu Cys Val Thr

4456

1	5	10	15
Ser Val Ser Lys Gly Gly Phe Glu Arg Glu Glu Thr Ala Thr Phe Ala	20	25	30
Leu Leu Tyr Arg Leu Arg Asn Ile Leu Phe Glu Arg Asn Arg Arg Val	35	40	45
Met Asp Val Ile Ser Arg Ser Gln Leu Tyr Leu Asp Asp Leu Phe Ser	50	55	60
Asp Tyr Tyr Asp Lys Pro Leu Ser Met Thr Asp Ile Ser Leu Lys Glu	65	70	75
Gly Thr His Ile Arg Val Asn Leu Leu Asn His Asn Ile Pro Lys Gly	85	90	95
Pro Cys Ile Leu Cys Gly Met Gly Asn Phe Lys Arg Glu Thr Val Tyr	100	105	110
Gly Cys Phe Gln Cys Ser Val Asp Gly Gln Lys Tyr Val Arg Leu His	115	120	125
Ala Val Pro Cys Phe Asp Ile Trp His Lys Arg Met Lys	130	135	140

<210> 4916
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 4916
 Asn Ser Ala Arg Val Cys Ile Leu Ser Arg Asp Arg Val Ser Pro Cys
 1 5 10 15
 Trp Leu Gly Trp Cys Leu Ser Leu Asp Leu Val Ile His Pro Pro Gln
 20 25 30
 Pro Pro Arg Val Leu Gly Leu Gln Val Arg Ala Thr Ala Pro Gly Trp
 35 40 45
 Phe Ser
 50

<210> 4917
 <211> 212
 <212> PRT

4457

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4917

Glu	Tyr	Cys	Asn	Thr	Val	Gln	Leu	Asp	Ser	Gly	Ile	Asp	Tyr	Arg	Lys
1				5				10						15	

Arg	Glu	Leu	Pro	Ala	Ala	Gly	Lys	Leu	Tyr	Tyr	Leu	Thr	Ser	Glu	Ala
			20					25					30		

Asp	Val	Glu	Ala	Val	Met	Asp	Lys	Leu	Phe	Asp	Glu	Leu	Ala	Gln	Lys
		35					40					45			

Gln	Asn	Asp	Leu	Thr	Arg	Pro	Arg	Ile	Leu	Lys	Val	Gln	Gly	Arg	Glu
	50					55					60				

Leu	Arg	Leu	Asn	Lys	Ala	Cys	Gly	Thr	Val	Ala	Asp	Cys	Thr	Phe	Glu
65					70					75					80

Glu	Leu	Cys	Glu	Arg	Pro	Leu	Gly	Ala	Ser	Asp	Tyr	Leu	Glu	Leu	Xaa
				85					90					95	

Lys	Asn	Phe	Asp	Thr	Ile	Phe	Leu	Arg	Xaa	Ile	Pro	Gln	Phe	Thr	Leu
			100					105					110		

Ala	Asn	Arg	Thr	Gln	Gly	Arg	Arg	Phe	Ile	Thr	Leu	Ile	Asp	Asn	Phe
		115					120					125			

Tyr	Asp	Leu	Lys	Val	Arg	Ile	Ile	Cys	Ser	Ala	Ser	Thr	Pro	Ile	Ser
	130					135					140				

Ser	Leu	Phe	Leu	His	Gln	His	His	Asp	Ser	Glu	Leu	Glu	Gln	Ser	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4458

145 150 155 160
 Ile Leu Met Asp Xaa Leu Gly Leu Xaa Gln Asp Ser Ala Glu Gly Leu
 165 170 175
 Ser Met Phe Thr Gly Glu Glu Glu Ile Phe Ala Phe Gln Arg Thr Ile
 180 185 190
 Ser Arg Leu Thr Glu Met Gln Thr Glu Gln Tyr Trp Asn Glu Gly Asp
 195 200 205
 Arg Thr Lys Lys
 210

<210> 4918

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4918

Met Gln Asn Ile Glu Arg Ile Phe Met Ile Leu Pro Asn Cys Lys His
 1 5 10 15
 Ser Ser Gln Ser Leu Ile Ala Leu Glu Cys Phe Leu Asp Glu Gln Val
 20 25 30
 Thr Ser Cys Lys Pro Thr Ser Glu Val Arg Lys Met Phe Ser His Val
 35 40 45
 Ser Cys Ser Cys Gln Ile Phe Lys Asn Pro Pro Ser Phe Asn His Pro
 50 55 60
 Val Gly Lys Met Cys Tyr Lys Thr Leu Pro Pro Gly Val Phe Trp Glu
 65 70 75 80
 Glu Cys Leu Lys Lys Lys Lys Lys Thr Ala Xaa Arg Lys Tyr Phe Gln
 85 90 95
 Ile Leu Tyr

<210> 4919

4459

<211> 224
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (224)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4919
 Tyr Leu Asp Ala Glu Lys Met Gly Gln Lys Ala Ser Gln Gln Leu Ala
 1 5 10 15
 Leu Lys Asp Ser Lys Glu Val Pro Val Val Cys Glu Val Val Ser Glu
 20 25 30
 Ala Ile Val His Ala Ala Gln Lys Leu Lys Glu Tyr Leu Gly Phe Glu
 35 40 45
 Tyr Pro Pro Ser Lys Leu Cys Pro Ala Ala Asn Thr Leu Asn Glu Ile
 50 55 60
 Phe Leu Ile His Phe Ile Thr Phe Cys Gln Glu Lys Gly Val Asp Glu
 65 70 75 80
 Trp Leu Thr Thr Thr Lys Met Thr Lys His Gln Ala Phe Leu Phe Gly
 85 90 95
 Ala Asp Trp Ile Trp Thr Phe Trp Gly Ser Asp Lys Gln Ile Lys Leu
 100 105 110
 Gln Leu Ala Val Gln Thr Leu Gln Met Ser Ser Pro Pro Pro Val Glu
 115 120 125
 Ser Lys Pro Cys Asp Leu Ser Asn Pro Glu Ser Xaa Val Xaa Glu Ser
 130 135 140

4460

Ser Trp Lys Lys Ser Arg Phe Asp Lys Leu Glu Glu Phe Cys Asn Leu
 145 150 155 160

Ile Gly Glu Asp Cys Leu Gly Leu Phe Ile Ile Phe Gly Met Pro Gly
 165 170 175

Lys Pro Lys Asp Ile Arg Gly Val Val Leu Asp Ser Val Lys Ser Gln
 180 185 190

Met Val Arg Ser His Leu Pro Gly Gly Lys Ala Val Ala Xaa Phe Val
 195 200 205

Leu Glu Thr Glu Asp Cys Val Phe Ile Lys Glu Leu Leu Lys Ile Xaa
 210 215 220

<210> 4920

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4920

Thr Trp Lys Leu Phe Tyr Gln Ile Thr Val Leu His His Pro Pro Val
 1 5 10 15

Cys Leu Val Ser Leu Ile Asn Gly Arg Gly Ile Ser Lys Leu Ser Phe
 20 25 30

Leu Thr Pro Phe Glu Tyr Ser Val Phe Ala Ile Ile Asp Val Ala Pro
 35 40 45

His Asn Ser Pro Thr Phe Ile Leu Lys Asn Gln Asn Leu Lys Asn Cys
 50 55 60

Ser Ser Cys Gln Ser Val Met Thr His Leu Arg Xaa Ile Leu Phe Leu
 65 70 75 80

Asp Val

4461

<210> 4921

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4921

Lys	Ser	Ser	Leu	Cys	Cys	Ser	His	Phe	Asn	Ser	Cys	His	Met	Phe	Cys
1				5					10					15	

Lys	Gln	Phe	Phe	Glu	Phe	Ile	Ile	Phe	Gln	Ser	Cys	Leu	Tyr	Tyr	Ile
			20					25					30		

Leu	Pro	His	Lys	Asn	Phe	Lys	Phe	Val
		35				40		

<210> 4922

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4922

Glu	Tyr	Phe	Gln	Asn	Pro	Ser	Leu	Ser	Lys	Leu	Phe	Cys	Gly	Lys	Ser
1				5					10					15	

Ser	Ile	Tyr	Phe	Ile	Asn	Val	Met	Cys	Leu	Ile	Leu	Asp	Leu	Phe	Trp
			20					25					30		

Glu	Lys	Leu	Phe	Lys	Leu	Gly	Pro	Phe	Lys	Leu	Ile	Leu	Ser	Ser	Leu
		35					40					45			

Glu	Gly	Arg	Ser	Tyr	Leu	Ala	Asn	Glu	Ser
	50					55			

<210> 4923

<211> 93

<212> PRT

<213> Homo sapiens

<400> 4923

Phe	Phe	Glu	Gln	Ala	Met	Val	Asp	Ser	Gly	Ser	Tyr	Arg	Asn	Ser	Ile
1				5					10					15	

Asp	His	Thr	Val	Val	Leu	Arg	Glu	Lys	Leu	Pro	Ile	Arg	Ser	Asn	Ile
			20					25					30		

Phe	Pro	Leu	Met	Leu	Glu	Thr	Val	Asp	Gly	His	Pro	Leu	Ile	Asn	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4462

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          35              40              45
Pro  Ile Thr  Lys  Glu  Thr  Ser  Pro  Val  Gln  Val  Gln  Ile  Gly  Asn  His
   50              55              60

Val  Glu  Glu  Leu  Gln  Phe  Asp  Ile  Ile  His  Ala  Pro  Arg  Tyr  Pro  Leu
   65              70              75              80

Ile  Ile  Gly  Ile  His  Trp  Leu  Glu  Thr  His  Asp  Gln  Thr
          85              90

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<210> 4924
 <211> 43
 <212> PRT
 <213> Homo sapiens

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<400> 4924
Lys  Ala  Asp  Thr  Gly  Ala  Ile  Lys  Asn  Pro  Gly  Asp  Gly  Gly  Cys  Ser
   1              5              10              15

Glu  Leu  Arg  Ser  Arg  His  Cys  Pro  Pro  Ala  Trp  Ala  Thr  Arg  Val  Lys
          20              25              30

Leu  Cys  Leu  Lys  Lys  Gln  Thr  Asn  Lys  Cys  Ile
          35              40

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<210> 4925
 <211> 110
 <212> PRT
 <213> Homo sapiens

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<400> 4925
Trp  His  Pro  Leu  Ser  Glu  Ser  Gln  Ser  Ser  Leu  Arg  His  Cys  Tyr  Lys
   1              5              10              15

Arg  Thr  Leu  Arg  Lys  Ile  Trp  Pro  Tyr  Glu  Pro  Ser  Gln  Pro  Gln  Ala
          20              25              30

Lys  Arg  Met  Thr  Met  Cys  Val  Ser  Ala  Ala  His  Gly  Gln  Phe  Val  Ser
          35              40              45

His  Cys  Phe  Gly  Lys  Pro  Cys  Val  Pro  Asn  Gln  Gly  Arg  Val  Phe  Gln
          50              55              60

Gly  Lys  Val  Asn  Phe  Pro  Lys  Phe  Ile  Lys  Ile  Glu  Leu  Gly  Lys  Pro
          65              70              75              80

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4463

Ser Ile Leu Asn Leu Phe Gln Ser Ser Gly His His Ser Tyr Phe Phe
 85 90 95

Cys His Val Lys Glu Lys Phe Gln Ala Cys Ile Leu Ser Cys
 100 105 110

<210> 4926
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 4926
 Ser Pro Leu Arg Lys Ser Ser Gly Met Phe Ser Ile Ala Val Ser Phe
 1 5 10 15
 Pro Pro Lys Ile Thr Trp Leu Gly Ser Tyr Trp Ser Ser Gly Asn Leu
 20 25 30
 Ile Pro His Arg Asn Trp Arg Lys Gly Asn Ala Ser Arg Glu Glu Gln
 35 40 45
 Leu Tyr Phe Cys Leu Ser Asn Lys Pro Thr Asn Arg Phe Trp Tyr Glu
 50 55 60
 Leu Trp Arg His Lys Glu Asn Glu Cys Met Tyr Ser Lys Cys Thr Ser
 65 70 75 80
 Phe Phe Thr Leu Ser Trp Gln Lys Met Gln His Phe
 85 90

<210> 4927
 <211> 273
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4927
 Xaa Leu Glu His Ile Pro Asn Phe Ser Leu Asp Asp Met Val Lys Leu

4464

1	5	10	15
Val Glu Val	Pro Asn Asp Gly Gly	Pro Leu Gly Ile His Val	Val Pro
	20	25	30
Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly Leu Leu Val Lys Arg Leu			
	35	40	45
Glu Lys Gly Gly Lys Ala Glu His Glu Asn Leu Phe Arg Glu Asn Xaa			
	50	55	60
Cys Ile Val Arg Ile Asn Asp Gly Asp Leu Arg Asn Arg Arg Phe Glu			
	65	70	75
Gln Ala Gln His Met Phe Arg Gln Ala Met Arg Thr Pro Ile Ile Trp			
	85	90	95
Phe His Val Val Pro Ala Ala Asn Lys Glu Gln Tyr Glu Gln Leu Ser			
	100	105	110
Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser Arg Phe Ser Pro Asp Ser			
	115	120	125
Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser Ala Gly Leu His Thr Val			
	130	135	140
Gln Arg Ala Pro Arg Leu Asn His Pro Pro Glu Gln Ile Asp Ser His			
	145	150	155
Ser Arg Leu Pro His Ser Ala His Pro Ser Gly Lys Pro Pro Ser Ala			
	165	170	175
Pro Ala Ser Ala Pro Gln Asn Val Phe Ser Thr Thr Val Ser Ser Gly			
	180	185	190
Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu Asn Ile Gln Leu Lys Lys			
	195	200	205
Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr Ser Arg Asp Val Thr Ile			
	210	215	220
Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn Ile Leu Pro Arg Gly Ala			
	225	230	235
Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly Asp Arg Leu Ile Glu Val			
	245	250	255
Asn Gly Val Gly Leu Val Gly Lys Ser Gln Glu Glu Val Val Ser Leu			
	260	265	270
Leu			

4465

<210> 4928

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4928

Asp	Arg	Xaa	Met	Lys	Glu	Glu	Val	Lys	Gly	Ile	Pro	Val	Arg	Val	Ala
1				5					10					15	

Leu	Arg	Cys	Arg	Pro	Leu	Val	Pro	Lys	Glu	Ile	Ser	Glu	Gly	Cys	Gln
			20					25					30		

Met	Cys	Leu	Ser	Phe	Val	Pro	Gly	Glu	Pro	Gln	Val	Val	Val	Gly	Thr
			35				40					45			

Asp	Lys	Ser	Phe	Thr	Tyr	Asp	Phe	Val	Phe	Asp	Pro	Ser	Thr	Glu	Gln
	50					55					60				

Glu	Glu	Val	Phe	Asn	Thr	Ala	Val	Ala	Pro	Leu	Ile	Lys	Gly	Val	Phe
65					70					75				80	

Lys	Gly	Tyr	Asn	Ala	Thr	Val	Leu	Ala	Tyr	Gly	Gln	Thr	Gly	Ser	Gly
			85						90					95	

Lys	Thr	Tyr	Ser	Met	Gly	Gly	Ala	Tyr	Thr	Ala	Glu	Gln	Glu	Asn	Glu
			100					105					110		

Pro	Thr	Val	Gly	Val	Ile	Pro	Arg	Val	Ile	Gln	Leu	Leu	Phe	Lys	Glu
		115					120					125			

Ile	Asp	Lys	Lys	Ser	Asp	Phe	Glu	Phe	Thr	Leu	Lys	Val	Ser	Tyr	Leu
	130					135					140				

Glu	Ile	Tyr	Asn	Glu	Glu	Ile	Leu	Asp	Leu	Leu	Cys	Pro	Ser	Arg	Glu
145					150					155					160

<210> 4929

4466

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4929

Pro	Arg	Leu	Leu	Arg	Leu	Pro	Arg	Ser	Val	Val	Val	Met	Asp	Ser	Pro
1				5					10					15	

Trp	Asp	Glu	Leu	Ala	Leu	Ala	Phe	Ser	Arg	Thr	Ser	Met	Phe	Pro	Phe
			20					25					30		

Phe	Asp	Ile	Ala	His	Tyr	Leu	Val	Ser	Val	Met	Ala	Val	Lys	Arg	Gln
		35					40					45			

Pro	Gly	Ala	Ala	Ala	Leu	Ala	Trp	Lys	Asn	Pro	Ile	Ser	Ser	Trp	Phe
	50					55					60				

Thr	Ala	Met	Leu	His	Cys	Phe	Gly	Gly	Gly	Ile	Leu	Ser	Cys	Leu	Leu
65					70					75					80

Leu	Ala	Glu	Pro	Pro	Leu	Lys	Phe	Leu	Ala	Asn	His	Thr	Asn	Ile	Leu
				85					90					95	

Leu	Ala	Ser	Ser	Ile	Trp	Tyr	Ile	Thr	Phe	Phe	Cys	Pro	His	Asp	Leu
			100					105					110		

Val	Ser	Gln	Gly	Tyr	Ser	Tyr	Leu	Pro	Val	Gln	Leu	Leu	Ala	Ser	Gly
		115					120					125			

Met	Lys	Glu	Val	Thr	Arg	Thr	Trp	Lys	Ile	Val	Gly	Gly	Val	Thr	His
	130					135					140				

Ala	Asn	Ser	Tyr	Tyr	Lys	Asn	Gly	Trp	Ile	Val	Met	Ile	Ala	Ile	Gly
145					150					155					160

Trp	Ala	Arg	Gly	Ala	Gly	Gly	Thr	Ile	Ile	Thr	Asn	Phe	Glu	Arg	Leu
				165					170					175	

Val	Lys	Gly	Asp	Trp	Lys	Pro	Glu	Gly	Asp	Glu	Trp	Leu	Lys	Met	Ser
			180					185					190		

4467

Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser Val Ile Phe Thr Phe Gln
 195 200 205

Xaa Thr Gln Xaa Leu Ala Ile Ser Lys His Asn Leu Met Phe Leu Tyr
 210 215 220

Thr Ile Phe Ile Val Ala Thr Lys Ile Thr Met Met Thr Thr Gln Thr
 225 230 235 240

Ser Thr Met Thr Phe Ala Pro Phe Glu Asp Thr Leu Ser Trp Met Leu
 245 250 255

Phe Gly Trp Gln Gln Pro Phe Ser Ser Cys Glu Lys Lys Ser Glu Ala
 260 265 270

Lys Ser Pro Ser Asn Gly Val Gly Ser Leu Ala Ser Lys Pro Val Asp
 275 280 285

Val Ala Ser Asp Asn Val Lys Lys Lys His Thr Lys Lys Asn Glu
 290 295 300

<210> 4930

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4930

Val Met Val Ala Glu Thr Ser Ser Leu Tyr Phe Gly Ala Lys Thr Lys
 1 5 10 15

Arg Gln His Lys Arg Lys Ser Ile Leu Ile Glu Tyr Phe Val Glu Gln
 20 25 30

Arg Arg Leu Asp Lys Asn Cys Lys Pro Thr Asp Ser Ala Asn Lys Glu
 35 40 45

Arg Asn Val Leu Ala Ile Arg His Val Ser Ser Glu Ser Lys Ser Asn
 50 55 60

Asn Cys Arg Leu Gln Lys Lys Lys Val Phe Lys Asn Phe Ile Lys Thr
 65 70 75 80

Gly His

<210> 4931

<211> 121

4468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4931

Glu	Gly	Leu	Arg	Asp	Gly	Arg	Leu	Ser	Arg	Ile	Pro	Phe	Leu	Ser	Thr
1				5					10					15	

Arg	Ala	Leu	Leu	Glu	Pro	Leu	Ser	Lys	Gln	Trp	Gln	Gly	Thr	Glu	Arg
		20						25					30		

Ser	Gln	Gln	Glu	Ser	Gly	Arg	Gly	Leu	Ile	Ile	Thr	Lys	Lys	Thr	His
	35						40					45			

Tyr	Ala	Arg	Asn	Arg	Leu	Cys	Ala	Pro	Val	Pro	Asp	Thr	Trp	Gln	Lys
	50					55					60				

Cys	Ser	Ser	Val	Thr	His	Val	Cys	Glu	Xaa	Ile	Ala	Gly	Ser	Thr	Pro
65					70					75					80

Ser	Ala	Trp	Pro	Ala	Gly	Ala	Ser	Ala	Ala	Asp	Pro	Met	Leu	Ser	Gly
				85					90					95	

Gln	Trp	Gly	Ala	Ala	Pro	Gly	Arg	Leu	Phe	Trp	Gly	Arg	Leu	Ser	Tyr
		100						105					110		

Pro	Trp	Ile	Val	Tyr	Thr	Leu	Leu	Cys
	115						120	

<210> 4932

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4932

Asp	Lys	Ser	Glu	Asn	Val	Lys	Leu	Ile	Asn	Pro	Leu	Leu	Val	Ser	Lys
1				5					10					15	

Gln	Thr	Thr	Cys	Leu	Arg	Lys	Leu	Leu	Asn	Phe	His	Val	Leu	Leu	Pro
			20					25					30		

Asp	Ser	Ser	Leu	Ile	Lys	Arg	Lys	Lys	Lys	Asn	Pro	Ala	Gln	Ala	Trp
		35					40					45			

Trp	Leu	Thr	Pro	Trp	His	Leu	Glu	Gly	Pro	Arg	Trp	Glu	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4469

50

55

60

<210> 4933

<211> 282

<212> PRT

<213> Homo sapiens

<400> 4933

Asn Tyr Ser Leu Leu Arg Glu Arg Val Glu Met Val Gly Ile Leu Pro

1

5

10

15

Leu Cys Cys Ser Gly Cys Val Pro Ser Leu Cys Cys Ser Ser Tyr Val

20

25

30

Pro Ser Val Ala Pro Thr Ala Ala His Ser Val Arg Val Pro His Ser

35

40

45

Ala Gly His Cys Gly Gln Arg Val Leu Ala Cys Ser Leu Pro Gln Val

50

55

60

Phe Leu Lys Pro Trp Ile Phe Val Glu His Phe Ser Ser Trp Leu Ser

65

70

75

80

Leu Glu Leu Phe Ser Phe Leu Arg Tyr Leu Gly Thr Leu Leu Cys Ala

85

90

95

Cys Gly His Arg Leu Arg Glu Gly Leu Leu Leu Pro Cys Leu Leu Gly

100

105

110

Val Gly Ser Trp Leu Leu Phe Asn Asn Trp Thr Gly Gly Ser Trp Phe

115

120

125

Ser Leu His Leu Gln Gln Val Ser Leu Ser Gln Gly Ser His Val Ala

130

135

140

Ala Phe Leu Pro Glu Ala Ile Gly Pro Gly Val Pro Val Pro Val Ser

145

150

155

160

Gly Glu Ser Thr Ser Ala Gln Gln Ser His Ala Gly Trp Gln Leu Ser

165

170

175

Ala Glu Ala Asp Ala Cys Pro Ser Val Leu Tyr Ser Glu Val Leu Glu

180

185

190

Trp Asn Lys Asn Ile Asn Thr Tyr Thr Ser Phe His Asp Phe Cys Leu

195

200

205

Ile Leu Gly Ile Phe Leu Phe Cys Phe Val Leu Ala Val Ile Gly Leu

210

215

220

4470

Pro Tyr Ile Lys Pro Gly Leu Ser Leu Ser Val Ala Leu Leu Cys Lys
 225 230 235 240

Ala Ser Tyr Tyr Ser Leu Val Trp Phe Ser Arg Thr Val Arg Ser Thr
 245 250 255

Pro Gly Ala Val Cys Phe Leu Arg Leu Pro Gln His Lys Val Pro Tyr
 260 265 270

His Cys Gln Pro Ser Ser Pro Asp Pro Lys
 275 280

<210> 4934

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4934

Cys His Leu Asn Ser Ile His Trp Pro Ser Phe Tyr Asn Arg Arg Asp
 1 5 10 15

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro
 20 25 30

Pro Phe Ala Ala Gly Val Ile Ala Xaa Lys Pro Ala Pro Ile Ala Leu
 35 40 45

Xaa Asn Ser Cys Xaa Ala
 50

<210> 4935

4471

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4935

Ile	Gln	Arg	Leu	Ser	Leu	Val	Arg	Ser	Leu	Cys	Glu	Ser	Glu	Glu	Gln
1				5					10					15	

Arg	Leu	Leu	Glu	Gln	Val	His	Gly	Xaa	Glu	Glu	Arg	Ala	His	Gln	Ser
			20					25					30		

Ile	Leu	Thr	Gln	Arg	Val	His	Trp	Ala	Glu	Ala	Leu	Gln	Lys	Leu	Asp
		35					40					45			

Thr	Ile	Arg	Thr	Gly	Leu	Val	Gly	Met	Leu	Thr	His	Leu	Asp	Asp	Leu
	50					55					60				

Gln	Leu	Ile	Gln	Lys	Glu	Gln	Glu	Ile	Phe	Glu	Arg	Thr	Glu	Glu	Ala
65					70					75					80

Glu	Gly	Ile	Leu	Asp	Pro	Gln	Glu	Ser	Glu	Met	Leu	Asn	Phe	Asn	Glu
				85					90					95	

Lys	Cys	Thr	Arg	Ser	Pro	Leu	Leu	Thr	Gln	Leu	Trp	Ala	Thr	Ala	Val
			100					105					110		

Leu	Gly	Ser	Leu	Ser	Gly	Thr	Glu	Asp	Ile	Arg	Ile	Asp	Glu	Arg	Thr
		115					120					125			

Val	Ser	Pro	Phe	Leu	Gln	Leu	Ser	Asp	Asp	Arg	Lys	Thr	Leu	Thr	Phe
		130				135					140				

Ser	Thr	Lys	Lys	Ser	Lys	Ala	Cys	Ala	Asp	Gly	Pro	Glu	Arg	Phe	Asp
145					150					155					160

His	Trp	Pro	Asn	Ala	Leu	Ala	Ala	Thr	Ser	Phe	Gln	Asn	Gly	Leu	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

165

175

Lys Leu Leu Gln Xaa Pro Xaa Pro Ser Ala Thr Thr Thr Leu Leu Ser

4473

35

40

45

Gln Gln Pro Ser Arg
50

<210> 4937

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4937

His Val Arg Glu Thr His Val Ala Gly Glu Val Gly Glu Arg Lys Val
1 5 10 15

Gly Val Asn Thr Leu Trp Gly Ser Phe Glu Ile Ser Asn Val Arg Leu
20 25 30

Ala Arg Val Met Leu Thr Gln Phe Ala Glu Gly Arg Leu Glu Asp Gln
35 40 45

4474

Leu Asp Lys Tyr Asp His Trp Ala Asp Arg Phe Glu Asp Leu Pro Leu
 50 55 60
 Tyr Phe Met Thr Phe His Gly Gln Gln Ser Ile Arg Thr Val Ile Asp
 65 70 75 80
 Thr Met Gln His Ala Val Tyr Val Tyr Asp Ile Cys His Val Ile Ile
 85 90 95
 Asp Asn Leu Gln Phe Met Met Gly His Glu Gln Leu Ser Thr Asp Arg
 100 105 110
 Ile Ala Ala Gln Asp Tyr Ile Ile Gly Val Phe Arg Lys Phe Ala Thr
 115 120 125
 Asp Asn Asn Cys His Val Thr Leu Val Ile His Pro Arg Lys Glu Asp
 130 135 140
 Asp Asp Lys Glu Leu Gln Thr Ala Ser Ile Phe Gly Ser Ala Lys Ala
 145 150 155 160
 Ser Gln Glu Ala Asp Asn Val Leu Ile Leu Gln Asp Arg Lys Leu Val
 165 170 175
 Thr Gly Pro Gly Lys Arg Tyr Leu Gln Val Ser Lys Asn Arg Phe Asp
 180 185 190
 Gly Asp Val Gly Val Phe Pro Leu Glu Phe Asn Lys Asn Ser Leu Thr
 195 200 205
 Phe Ser Ile Pro Pro Lys Asn Lys Ala Arg Leu Lys Lys Ile Lys Asp
 210 215 220
 Asp Thr Gly Pro Val Ala Lys Lys Pro Xaa Xaa Gly Lys Lys Gly Ala
 225 230 235 240
 Thr Thr Gln Asn Xaa Glu Ile Xaa Ser Gly Gln Ala Pro Thr Pro Asp
 245 250 255
 Gln Gln Thr Pro Xaa Ser Xaa Gln Ser Glu Gly
 260 265

<210> 4938

<211> 447

<212> PRT

<213> Homo sapiens

<220>

4475

<221> SITE

<222> (365)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4938

Gly Arg Ala Ser Gln Ala Pro Ser Ser Gly Leu Pro Ala Gly Gly Ala
 1 5 10 15

Asn Gly Glu Ser Pro Gly Gly Gly Ala Pro Phe Pro Gly Ser Ser Gly
 20 25 30

Ser Ser Ala Leu Leu Gln Ala Glu Val Leu Asp Leu Asp Glu Asp Glu
 35 40 45

Asp Asp Leu Glu Val Phe Ser Lys Asp Ala Ser Leu Met Asp Met Asn
 50 55 60

Ser Phe Ser Pro Met Met Pro Thr Ser Pro Leu Ser Met Ile Asn Gln
 65 70 75 80

Ile Lys Phe Glu Asp Glu Pro Asp Leu Lys Asp Leu Phe Ile Thr Val
 85 90 95

Asp Glu Pro Glu Ser His Val Thr Thr Ile Glu Thr Phe Ile Thr Tyr
 100 105 110

Arg Ile Ile Thr Lys Thr Ser Arg Gly Glu Phe Asp Ser Ser Glu Phe
 115 120 125

Glu Val Arg Arg Arg Tyr Gln Asp Phe Leu Trp Leu Lys Gly Lys Leu
 130 135 140

Glu Glu Ala His Pro Thr Leu Ile Ile Pro Pro Leu Pro Glu Lys Phe
 145 150 155 160

Ile Val Lys Gly Met Val Glu Arg Phe Asn Asp Asp Phe Ile Glu Thr
 165 170 175

Arg Arg Lys Ala Leu His Lys Phe Leu Asn Arg Ile Ala Asp His Pro
 180 185 190

Thr Leu Thr Phe Asn Glu Asp Phe Lys Ile Phe Leu Thr Ala Gln Ala
 195 200 205

Trp Glu Leu Ser Ser His Lys Lys Gln Gly Pro Gly Leu Leu Ser Arg
 210 215 220

Met Gly Gln Thr Val Arg Ala Val Ala Ser Ser Met Arg Gly Val Lys
 225 230 235 240

Asn Arg Pro Glu Glu Phe Met Glu Met Asn Asn Phe Ile Glu Leu Phe

4476

	245		250		255										
Ser	Gln	Lys	Ile	Asn	Leu	Ile	Asp	Lys	Ile	Ser	Gln	Arg	Ile	Tyr	Lys
	260		265		270										
Glu	Glu	Arg	Glu	Tyr	Phe	Asp	Glu	Met	Lys	Glu	Tyr	Gly	Pro	Ile	His
	275		280		285										
Ile	Leu	Trp	Ser	Ala	Ser	Glu	Glu	Asp	Leu	Val	Asp	Thr	Leu	Lys	Asp
	290		295		300										
Val	Ala	Ser	Cys	Ile	Asp	Arg	Cys	Cys	Lys	Ala	Thr	Glu	Lys	Arg	Met
305			310		315										320
Ser	Gly	Leu	Ser	Glu	Ala	Leu	Leu	Pro	Val	Val	His	Glu	Tyr	Val	Leu
	325		330		335										
Tyr	Ser	Glu	Met	Leu	Met	Gly	Val	Met	Lys	Arg	Arg	Asp	Gln	Ile	Gln
	340		345		350										
Ala	Glu	Leu	Asp	Ser	Lys	Val	Glu	Val	Leu	Thr	Tyr	Xaa	Lys	Ala	Asp
	355		360		365										
Thr	Asp	Leu	Leu	Pro	Glu	Glu	Ile	Gly	Lys	Leu	Glu	Asp	Lys	Val	Glu
	370		375		380										
Cys	Ala	Asn	Asn	Ala	Leu	Lys	Ala	Asp	Trp	Glu	Arg	Trp	Lys	Gln	Asn
385			390		395										400
Met	Gln	Asn	Asp	Ile	Lys	Leu	Ala	Phe	Thr	Asp	Met	Ala	Glu	Glu	Asn
	405		410		415										
Ile	His	Tyr	Tyr	Glu	Gln	Cys	Leu	Ala	Thr	Trp	Glu	Ser	Phe	Leu	Thr
	420		425		430										
Ser	Gln	Thr	Asn	Leu	His	Leu	Glu	Glu	Ala	Ser	Glu	Asp	Lys	Pro	
	435		440		445										

<210> 4939

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4477

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4939

Ala Ala Ala Ala Gln Gly Leu Val Arg Ala Gly Arg Arg Glu Leu Met

1

5

10

15

Ala Glu Glu Glu Ser Asp Gln Glu Ala Glu Arg Leu Gly Glu Glu Leu

20

25

30

Val Ala Ile Val Glu Ser Pro Leu Gly Pro Val Gly Leu Arg Ala Ala

35

40

45

Gly Asp Gly Arg Gly Gly Ala Gly Ser Gly Asn Cys Gly Gly Gly Val

50

55

60

Gly Ile Ser Ser Arg Asp Tyr Cys Arg Arg Phe Cys Gln Val Val Glu

65

70

75

80

Asp Tyr Ala Gly Arg Trp Gln Val Pro Leu Pro Gln Leu Gln Val Leu

85

90

95

Gln Thr Ala Leu Cys Cys Phe Thr Thr Ala Ser Ala Ser Phe Pro Asp

100

105

110

Glu Cys Glu His Val Gln Tyr Val Leu Xaa Ser Leu Ala Val Ser Phe

115

120

125

Phe Glu Leu Leu Leu Phe Phe Gly Arg Asp Glu Phe Tyr Glu Glu Pro

130

135

140

Leu Lys Asp Ile Leu Gly Ser Phe Gln Glu Cys Gln Asn His Leu Arg

145

150

155

160

Arg Tyr Gly Asn Val Asn Leu Glu Leu Val Thr Arg Ile Ile Arg Asp

165

170

175

Gly Gly Pro Trp Glu Asp Pro Val Leu Gln Ala Val Leu Lys Ala Gln

180

185

190

Pro Ala Ser Gln Glu Ile Val Asn Lys Tyr Leu Ser Ser Glu Asn Pro

195

200

205

Leu Phe Phe Glu Leu Arg Ala Arg Tyr Leu Xaa Ala Cys Glu Arg Ile

210

215

220

[illegible]

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

4479

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4940

Xaa	Asn	Leu	Leu	Phe	Val	Gly	Phe	Xaa	Lys	Ser	Phe	Ala	Cys	Ile	Xaa
1				5				10					15		

Tyr	Lys	Thr	Thr	Thr	Val	Tyr	Met	Leu	Leu	Pro	Leu	Ala	Asp	Glu	Leu
			20					25					30		

Xaa	Xaa	Lys
		35

<210> 4941

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4941

Met	Asn	Gly	Pro	Val	Leu	Asp	Pro	Asp	Lys	Glu	Glu	Xaa	Thr	Met	Glu
1				5				10					15		

Ala	Leu	Gly	Met	Ile	Glu	Thr	Arg	Gly	Leu	Val	Ala	Leu	Ile	Glu	Ala
			20					25					30		

Ser	Asp	Ala	Met	Val	Lys	Ala	Ala	Arg	Val	Lys	Leu	Val	Gly	Val	Lys
		35					40				45				

Gln	Ile	Gly	Gly	Gly	Leu	Cys	Thr	Ala	Met
	50					55			

<210> 4942

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4942

Pro	Leu	Lys	Cys	Phe	Tyr	Phe	Gly	Asn	Phe	Val	Met	Leu	Ser	Thr	Phe
1				5				10					15		

Val	Ser	Ala	Gln	Phe	Ser	Arg	Leu	Arg	Ile	Asn	Leu	Leu	Phe	Leu	Asn
			20					25					30		

4480

Ser Thr Ala Asp Phe Ser Phe Lys Phe His Arg Leu Ser Thr Tyr Ile
 35 40 45

<210> 4943
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 4943
 Trp Gln Asn Gly Arg Leu Ile Phe Ser Ile Ile Ile Gly Glu His Ile
 1 5 10 15
 Ile Phe Trp Asn His Ala Ile Leu His Thr Val Lys Pro Leu Ile Phe
 20 25 30
 Gln Gly Asn Ser Phe Arg Ile Trp Tyr Trp His Ala Val Ser Tyr Leu
 35 40 45
 Ser Arg Ile Phe Gly Leu Ser Glu Arg Tyr Gln Phe Lys Ile Ser Gly
 50 55 60
 Ser Val Arg Ile Phe Asp Pro Ser Gln Cys Gln Tyr Leu Met Asn His
 65 70 75 80

<210> 4944
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 4944
 Lys Ser Ser Arg Lys Leu Leu Leu Lys Lys Thr Gly Tyr Leu Asn Ile
 1 5 10 15
 Glu Ile Tyr Val Cys Cys Glu Phe Lys Glu Pro Val Ile Val Ser Phe
 20 25 30
 Thr Lys Pro Ser Val Phe Asn Gly Cys Lys
 35 40

4481

<210> 4945

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4945

Arg Asn Val Asn Leu Cys Cys Phe Leu Cys Thr Ile Ala Ala Val Val
 1 5 10 15

Ser Leu Leu Glu Ile Asn Ile Pro Tyr Tyr Asp Val Tyr Glu Tyr Arg
 20 25 30

Phe Pro Phe Leu Pro Ser Leu Pro Pro Ser Pro Thr Phe Leu Phe Phe
 35 40 45

Phe Ser Leu Ser Ala Ser Leu Phe Leu Leu Pro Ser Ser Leu Pro Leu
 50 55 60

Ser Leu Leu Phe Leu Lys Ser Leu Ile Val Asn Lys Leu
 65 70 75

<210> 4946

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4946

Asn Ser Phe Cys Tyr Phe His Ile Arg Val Gln Thr Tyr Lys Gly Ala
 1 5 10 15

Cys Ser Leu Lys Val His Asn Tyr Ser Tyr Ser Val Cys Leu Tyr Cys
 20 25 30

Tyr Arg Met Leu Cys Phe Gly Ala Leu Ser Ser Ala Asp Pro Arg Ser
 35 40 45

Ser Val Glu Ile His Cys Leu Gly His Ser Leu Ile Arg Met Leu Ala
 50 55 60

Gly Asp Phe Val Ser Asp Val Ala Ser Leu Phe Ser Val His Arg Leu
 65 70 75 80

Arg Val Thr Thr Val Ala Cys Arg Val His Pro Val Gly Ala Ala Gln
 85 90 95

Leu Ser Glu Ser Lys Asn Leu Pro Thr Tyr Ser Asn Val Phe Ala Leu
 100 105 110

4482

<210> 4947

<211> 67

<212> PRT

<213> Homo sapiens

<400> 4947

Leu Ala Ser Glu Ser Val Val Gln Leu Val Cys Thr Gly Leu Lys Ala
 1 5 10 15

Gly Glu Trp Val Ile His His His Lys Gly Cys Pro Phe Phe Ala Val
 20 25 30

Thr Ala Asp Ala Cys Gly Arg Arg Ala Gln Gly Ser His Tyr His Phe
 35 40 45

Ser Leu Leu Thr Pro Arg Lys Leu Ser Thr Phe Leu Asp Thr Leu Phe
 50 55 60

Lys Val Leu
 65

<210> 4948

<211> 277

<212> PRT

<213> Homo sapiens

<400> 4948

Val Ile Leu Asp Gly Leu Leu Thr Trp Gly Gln Phe Lys Gln His Tyr
 1 5 10 15

Asn Arg His Phe Gly Phe Leu Gly Asp Phe Ile Gly Gln Val Gln Ser
 20 25 30

Arg Lys Cys Ile Glu Asp Val Ile His Phe Ala Trp Glu Glu Lys Leu
 35 40 45

Phe Leu Leu Ala Asp Glu Val Tyr Gln Asp Asn Val Tyr Ser Pro Asp
 50 55 60

Cys Arg Phe His Ser Phe Lys Lys Val Leu Tyr Glu Met Gly Pro Glu
 65 70 75 80

Tyr Ser Ser Asn Val Glu Leu Ala Ser Phe His Ser Thr Ser Lys Gly
 85 90 95

4483

Tyr Met Gly Glu Cys Gly Tyr Arg Gly Gly Tyr Met Glu Val Ile Asn
 100 105 110
 Leu His Pro Glu Ile Lys Gly Gln Leu Val Lys Leu Leu Ser Val Arg
 115 120 125
 Leu Cys Pro Pro Val Ser Gly Gln Ala Ala Met Asp Ile Val Val Asn
 130 135 140
 Pro Pro Val Ala Gly Glu Glu Ser Phe Glu Gln Phe Ser Arg Glu Lys
 145 150 155 160
 Glu Ser Val Leu Gly Asn Leu Ala Lys Lys Ala Lys Leu Thr Glu Asp
 165 170 175
 Leu Phe Asn Gln Val Pro Gly Ile His Cys Asn Pro Leu Gln Gly Ala
 180 185 190
 Met Tyr Ala Phe Pro Arg Ile Phe Ile Pro Ala Lys Ala Val Glu Ala
 195 200 205
 Ala Gln Ala His Gln Met Ala Pro Asp Met Phe Tyr Cys Met Lys Leu
 210 215 220
 Leu Glu Glu Thr Gly Ile Cys Val Val Pro Gly Ser Gly Phe Gly Gln
 225 230 235 240
 Arg Glu Gly Thr Tyr His Phe Arg Met Thr Ile Leu Pro Pro Val Glu
 245 250 255
 Lys Leu Lys Thr Val Leu Gln Lys Val Lys Asp Phe His Ile Asn Phe
 260 265 270
 Leu Glu Lys Tyr Ala
 275

<210> 4949

<211> 73

<212> PRT

<213> Homo sapiens

<400> 4949

Glu Asn Pro Ser Phe Thr Arg Arg Pro Asp Ser Phe Tyr Thr Ser Phe
 1 5 10 15
 Ile Met Leu Asp Cys Asn Lys Phe Gln Ile Leu Glu Trp Ala Tyr Leu
 20 25 30

[illegible]

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<400> 4950
Ser Pro Ala Lys Trp Leu Met Pro Glu Ile Pro Ala Leu Cys Glu Ala
  1             5             10             15
Lys Ala Gly Gly Ser Pro Glu Ala Arg Ser Ser Arg Val Ala Trp Ala
      20             25             30
Ala
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<210> 4951
<211> 75
<212> PRT
<213> Homo sapiens

<400> 4951
Gly Arg Ala Val Leu Glu Ile Asp Trp Val Gly Leu Glu Pro Glu Phe
  1             5             10             15
.
Ile Phe Leu Ile Cys Ile Pro Gly Asp Ser Cys Glu Ser Asp Ala Phe
      20             25             30
Gly Asn His Cys Thr Lys Ser Tyr Leu Trp Val Leu Gln Thr Ala Ser
      35             40             45
Pro Glu Ala Ser Leu Gly Leu Arg Ile Phe Ser Ser Asn Val Leu Val
  50             55             60
Arg Ser Leu Ser Ile Leu Trp Gly Trp Leu Trp
  65             70             75

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4485

<210> 4952

<211> 30

<212> PRT

<213> Homo sapiens

<400> 4952

Ile	Phe	Ser	Ile	Phe	Thr	Val	Leu	Val	Tyr	Phe	Phe	Pro	Val	Thr	Val
1				5					10					15	

Cys	Met	Asn	Thr	Asn	Val	Val	Phe	Asn	Pro	Pro	Phe	Gln	Phe
			20					25					30

<210> 4953

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4953

Gly	Ala	Leu	Asp	Cys	Gly	Ser	Pro	Ala	Ser	Ser	Thr	Pro	Tyr	Phe	Thr
1				5					10					15	

Gly	Leu	Glu	Leu	Pro	Gly	Asp	Xaa	Lys	Leu	Asp	Ala	Pro	Tyr	Asn	Phe
			20					25					30		

Asn	His	Pro	Phe	Ser	Ile	Asn	Asn	Leu	Met	Xaa	Glu	Gln	Thr	Pro	Ala
			35					40					45		

Pro	Pro	Lys	Leu	Asp	Val	Gly	Phe	Xaa	Gly	Tyr	Gly	Ala	Glu	Gly	Gly
		50				55					60				

Glu	Pro	Gly	Val	Tyr	Tyr	Gln	Gly	Leu	Tyr	Ser	Arg	Ser	Leu	Leu	Asn
65						70				75					80

Ala Ser

4486

<210> 4954

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4954

Asp	Thr	Thr	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser
1				5					10					15	

Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Asp	Cys	Phe	Val	Phe	Ser	Arg
			20					25					30		

Val	Leu	Tyr	Lys	Trp	Asn	Tyr	Ile	Val	Cys	Thr	Phe	Leu	Tyr	Ser	Leu
		35					40					45			

Ala	Ser	Phe	Thr	Gln	Ile	Ile	Ile	Leu	Arg	Phe	Phe	Ser	Val	Val	Ala
	50					55					60				

Cys	Ile	Asn	Asn	Ser	Phe	Ile	Phe	Cys	Ser	Asn	Ile	Pro	Leu	Tyr	Gly
65					70					75					80

Tyr	Thr	Lys	Ile	Tyr	His	Ser	Phe	Ala	Asp	Glu	His	Leu	Gly	Tyr	Leu
				85					90					95	

Gln	Phe	Tyr	Leu	Gln	Xaa	Lys	Leu	Leu	Arg	Ile	Leu	Val	Tyr	Glu	Ser
			100					105					110		

Leu	Tyr	Gly	His	Ile	Xaa	Ser	Phe
		115					120

<210> 4955

<211> 44

<212> PRT

<213> Homo sapiens

4487

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4955
 Phe Ile Asn Gly Lys Pro Glu Val Lys Lys Asp Leu Leu Glu Ala Gln
 1 5 10 15
 Thr Asn Ile Ala Phe Leu Gln Ser Glu Leu Asp Ala Leu Lys Ser Xaa
 20 25 30
 Tyr Ala Asp Xaa Ser Leu Xaa Thr Glu Xaa Asp Leu
 35 40

<210> 4956
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 4956
 Asp Ser Gly Ala Ala Phe Ser Phe Gly Gly Leu Ala Phe Ile Val Glu
 1 5 10 15
 Asn Ala Met Gly Ser Phe Gln Asn Gly Tyr Leu Ser Asn Leu Ser Ile
 20 25 30
 Phe Gln Asn Ser Tyr Phe Phe Pro Ala His Gly Gln Thr Arg Glu Phe
 35 40 45
 Ser Ser Val Leu Arg His Glu Asn Leu Val Gly His Leu Lys Val Lys
 50 55 60
 Ser Val Asn Val

4488

65

<210> 4957

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4957

Pro	Pro	Ala	Ala	Ser	His	Leu	Gly	Asn	Ile	Glu	Asn	Gln	Gly	Asn
1				5				10					15	

Gly	Leu	Lys	Ala	Gly	Arg	Ser	Val	Cys	Gln	Gln	Gly	Pro	Asn	Tyr	Val
			20					25					30		

Arg	Trp	Thr	Arg	Gly	Thr	His	Leu	Gln	Gly	Gly	Lys	Ser	Arg	Gly	Arg
		35					40					45			

Thr	Ser	Gly	Asp	Trp	Pro	Lys	Val	Leu	Pro	Cys	Leu	Gln	Asp	Glu	Thr
	50					55					60				

Arg	Leu	Leu	Ser	Pro	Ala	Phe	Xaa	Ala	Pro	Ala	Thr	Arg	Leu	Leu	Leu
65					70					75					80

Thr	Asp	Pro	Ser	Leu	Pro	Leu	Ser	Ala	Ser	Ile	Gln	Val	Ala	Val	Pro
				85					90					95	

Ala	Leu	Cys	Xaa	Ala	Leu	Ser	Cys	Leu	Cys	Ile	Leu	His	Lys	Leu
			100					105					110	

<210> 4958

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

4489

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4958

Pro	Gln	Arg	Xaa	Val	Lys	Ser	Phe	Cys	His	Tyr	Leu	His	Lys	Cys	Val
1				5					10					15	

Lys	His	Arg	Phe	Gln	Gln	Ser	Ala	Trp	His	Ile	Xaa	Gly	Cys	Ser	Met
			20					25					30		

Val	Xaa	Phe	Ile	Ile	Ile	Thr	Gln	Ile	Pro	Gln	Trp	Gln	Glu	Thr	Ser
	35						40					45			

Phe	Tyr	Ile	Met	Glu	Asn	Ile	Tyr	Ile	Lys	Ser	His	Leu	Leu
	50					55					60		

<210> 4959

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4959

Ala	Ile	His	Ser	Leu	Gln	Gln	Phe	Asp	Lys	Ile	Tyr	Phe	Cys	Glu	Gln
1				5					10					15	

Lys	Leu	Arg	His	Leu	His	Phe	Leu	Pro	Met	Trp	Ser	Leu	Gln	Thr	Trp
			20					25					30		

Glu	Thr	Ile	His	Glu	Tyr	Leu	Tyr	Cys	Met	Val	Ile
	35					40					

<210> 4960

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4490

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4960

His	Ile	Phe	Xaa	Phe	Phe	Phe	Phe	Cys	Tyr	Thr	Lys	Ser	Arg	Phe	Leu
1				5					10					15	

Leu	Asn	Leu	Cys	Asn	Asn	Tyr	Ile	Thr	Ile	Gln	Tyr	Lys	Tyr	Cys	Thr
			20					25					30		

Ser	Ser	Ile	Lys	Ile	Cys	Ser	Leu	Tyr	Asp	Arg	Ile	His	Leu	Lys	Thr
			35				40					45			

Leu	Val	Ile	Leu	Pro	Arg	Leu
	50				55	

<210> 4961

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4961

Ser	Asn	Gln	Gly	Asp	His	Gln	Val	Lys	Leu	Lys	His	Lys	Ile	Ile	Val
1				5					10					15	

Gly	Gly	Phe	Leu	Val	Lys	Asp	Val	Asn	Val	Gly	Phe	Pro	Thr	His	His
			20					25					30		

Gly	Val	Ser	Thr	His	His	Cys	Met	Leu	Gly	Thr	Ala	Val	Ser	Leu	Gly
			35				40					45			

His	Glu	Leu	Lys	Glu	His	Thr	Asn	Phe	Trp	Ser	Val	Pro	Ala	Ala	Ser
	50					55					60				

Arg	Pro	Ser	Phe	Cys	Tyr
	65			70	

<210> 4962

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

4491

<400> 4962

Val Gln Pro Gln His Ala Cys Thr Gln Ala Leu Ile Lys Thr Ala Cys
 1 5 10 15

Cys Ser Pro Leu Pro Arg Val Val Cys Trp Arg Ala Val Gly Val Arg
 20 25 30

Thr Asp Thr Arg Thr Phe His Leu Pro Gly Ala Leu Ala Ser Ser Ile
 35 40 45

Ser Phe Ser Thr Val Leu Lys Gln Asp Arg Xaa Ser Glu Arg Pro Val
 50 55 60

Ile Cys Pro Lys Cys Cys Arg Arg Arg Leu Asn Val Leu Glu Ser Leu
 65 70 75 80

Leu Ser His Leu His Tyr Asp Lys Ser Ile Val Pro Asn Arg
 85 90

<210> 4963

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4963

Leu Ala His Ile Lys Ile Val Glu Pro His Thr Leu Asn Leu Ala Asn
 1 5 10 15

Leu Val Thr Ala Gly Leu His Tyr Pro Val Leu Phe Phe Thr Arg Leu
 20 25 30

Thr Leu Pro Cys Ser Trp Cys Cys Val Asp Leu Cys Xaa Lys His Asn
 35 40 45

Arg Asn Ile
 50

<210> 4964

<211> 41

<212> PRT

<213> Homo sapiens

4492

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4964

Trp	Ser	Val	Gln	Pro	His	Ser	Asp	Ile	Thr	Met	Arg	Ser	Trp	Ile	Ser
1				5					10					15	

Ile	Pro	Trp	Gly	Gly	Pro	Val	Arg	His	Leu	Leu	His	Pro	Trp	Asn	Trp
			20				25						30		

Ile	Ile	Leu	Glu	Xaa	Lys	Pro	Gly	Thr
		35					40	

<210> 4965

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4965

Gly	Arg	Arg	Gln	Ser	Ser	Gly	Ser	Ser	Ser	Pro	Ala	Ala	Tyr	Gly	Thr
1				5					10					15	

Leu	Pro	Cys	Leu	Asp	Pro	Ser	Ile	Arg	Lys	Thr	Tyr	Pro	Ser	Thr	Thr
			20					25					30		

Gly	Lys	Ser	Ala	Asn	Leu	Asn	Pro	Lys	Met	Ala	Met	Ile	Ser	Val	Cys
		35					40					45			

Glu	Thr	Ser
	50	

<210> 4966

<211> 160

<212> PRT

<213> Homo sapiens

<400> 4966

Ile	Phe	Leu	Val	Phe	Cys	Lys	Leu	Ser	Val	Ile	Phe	Ser	Ser	Leu	Leu
1				5					10					15	

Arg	Lys	Met	Ala	Thr	Gln	Met	Val	Ala	Ala	Gln	Leu	Ala	Ser	Met	Val
			20					25					30		

Trp	Asn	Asn	Pro	Ser	Gln	Gln	Gln	Phe	Met	Gln	Phe	Gly	Gly	Ser	Ser
		35					40					45			

4493

Gly Ser Gln Leu Pro Gln Ile Gln Thr Asp Val Val Leu Pro Ser Cys
 50 55 60
 Lys Lys Lys Ala Pro Ala Glu Thr Pro Val Lys Glu Arg Leu Phe Ile
 65 70 75 80
 Val Phe Asn Pro His Pro Leu Pro Leu Asp Val Leu Glu Asp Ile Phe
 85 90 95
 Cys Arg Phe Gly Asn Leu Ile Glu Val Tyr Leu Val Ser Gly Lys Asn
 100 105 110
 Val Gly Tyr Ala Lys Tyr Ala Asp Arg Ile Ser Ala Asn Asp Ala Ile
 115 120 125
 Ala Thr Leu His Gly Lys Ile Leu Asn Gly Val Arg Leu Lys Val Met
 130 135 140
 Leu Ala Asp Ser Pro Arg Glu Glu Ser Asn Lys Arg Gln Arg Thr Tyr
 145 150 155 160

<210> 4967
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 4967
 Lys Ser Glu Thr Pro Ser Gln Glu Lys Lys Lys Lys Val Tyr Ser
 1 5 10 15
 Asn Arg Gln Ile Arg Gly Leu Arg Asp Pro Pro Leu Leu Leu Leu Pro
 20 25 30
 Glu Val Cys Arg Thr Val Tyr Arg Tyr Leu Leu Asp Arg Cys Pro Leu
 35 40 45
 Ser Tyr Phe Ile Cys Thr Val Ile Leu
 50 55

<210> 4968
 <211> 68
 <212> PRT
 <213> Homo sapiens

4494

<400> 4968

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Met Ser Lys Gly Thr Pro Leu Asn Thr Lys Thr Phe Ser Ser Trp Gln
 1             5             10             15

Thr Tyr Leu Ala Arg Ser Trp Arg Arg Val Arg Phe Gln Thr Met Leu
             20             25             30

Pro Phe Cys Pro Cys Gln Tyr Val Leu Thr Asp Cys Asp Ser Ala Val
             35             40             45

Asn Thr His Thr His Thr Gln Thr His Thr Gln Ala Pro Ser Val Tyr
             50             55             60

Asp Gln Asp Lys
65

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<210> 4969

<211> 49

<212> PRT

<213> Homo sapiens

<400> 4969

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Pro Val Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1             5             10             15

Lys Lys Ser Pro Gly Val Pro Asn Ser Val Phe Pro Glu Glu Glu Asp
             20             25             30

Leu Ser Tyr Leu Leu Lys Gln Arg Ser Pro Phe Pro Val Val Ser Leu
             35             40             45

Leu

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<210> 4970

<211> 199

<212> PRT

<213> Homo sapiens

<400> 4970

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Ala Arg Thr Lys Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln
 1             5             10             15

Leu Ala Val Ile Glu Phe Ala Arg Asn Cys Leu Asn Leu Lys Asp Ala
             20             25             30

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4495

Asp Ser Thr Glu Phe Arg Pro Asn Ala Pro Val Pro Leu Val Ile Asp
 35 40 45
 Met Pro Glu His Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly
 50 55 60
 Ile Arg Arg Thr Val Phe Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu
 65 70 75 80
 Tyr Gly Asp Val Pro Phe Ile Glu Glu Arg His Arg His Arg Phe Glu
 85 90 95
 Val Asn Pro Asn Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe
 100 105 110
 Val Gly Gln Asp Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala
 115 120 125
 Asn His Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser
 130 135 140
 Arg Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala
 145 150 155 160
 Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser
 165 170 175
 Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu Pro Arg
 180 185 190
 Ile Ala Glu Leu Glu Ile Ser
 195

<210> 4971

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4971

4496

Ala Ser Pro Gly Leu Gly Gly Ala Gln Ser Ser Val Leu His Asn Gly
 1 5 10 15

Phe Phe His Gly Ser Pro Gly Glu Leu Leu Tyr Thr Gln Lys Ile Gln
 20 25 30

Pro Leu Pro Ala Leu Ser Pro Phe Ser Leu Leu Leu Pro Phe Pro Met
 35 40 45

Pro Arg Ser Arg Gln Xaa Leu Thr Phe Arg Thr Ser Ile Ala Xaa Leu
 50 55 60

Ile Leu Arg Pro Leu Phe Lys Gly Gly
 65 70

<210> 4972

<211> 301

<212> PRT

<213> Homo sapiens

<400> 4972

Lys Ser Pro Gln Cys His Cys Leu Asp Leu Leu Glu Lys Tyr Gly Gln
 1 5 10 15

Gly Gly Asn Cys Thr Glu Gly Arg Met Val Phe Ser Tyr His Asn Ser
 20 25 30

Phe Leu Ile Ala Asp Arg Asn Glu Ala Trp Ile Leu Glu Thr Ala Gly
 35 40 45

Lys Tyr Trp Ala Ala Glu Lys Val Gln Glu Gly Val Arg Asn Ile Ser
 50 55 60

Asn Gln Leu Ser Ile Thr Thr Lys Ile Ala Arg Glu His Pro Asp Met
 65 70 75 80

Arg Asn Tyr Ala Lys Arg Lys Gly Trp Trp Asp Gly Lys Lys Glu Phe
 85 90 95

Asp Phe Ala Ala Ala Tyr Ser Tyr Leu Asp Thr Ala Lys Met Met Thr
 100 105 110

Ser Ser Gly Arg Tyr Cys Glu Gly Tyr Lys Leu Leu Asn Lys His Lys
 115 120 125

Gly Asn Ile Thr Phe Glu Thr Met Met Glu Ile Leu Arg Asp Lys Pro
 130 135 140

Ser Gly Ile Asn Met Glu Gly Glu Phe Leu Thr Thr Ala Ser Met Val

4497

145				150				155				160			
Ser	Ile	Leu	Pro	Gln	Asp	Ser	Ser	Leu	Pro	Cys	Ile	His	Phe	Phe	Thr
				165				170				175			
Gly	Thr	Pro	Asp	Pro	Glu	Arg	Ser	Val	Phe	Lys	Pro	Phe	Ile	Phe	Val
				180				185				190			
Pro	His	Ile	Ser	Gln	Leu	Leu	Asp	Thr	Ser	Ser	Pro	Thr	Phe	Glu	Leu
				195				200				205			
Glu	Asp	Leu	Val	Lys	Lys	Lys	Ser	His	Phe	Lys	Pro	Asp	Arg	Arg	His
				210				215				220			
Pro	Leu	Tyr	Gln	Lys	His	Gln	Gln	Ala	Leu	Glu	Val	Val	Asn	Asn	Asn
225				230				235				240			
Glu	Glu	Lys	Ala	Lys	Ile	Met	Leu	Asp	Asn	Met	Arg	Lys	Leu	Glu	Lys
				245				250				255			
Glu	Leu	Phe	Arg	Glu	Met	Glu	Ser	Ile	Leu	Gln	Asn	Lys	His	Leu	Asp
				260				265				270			
Val	Glu	Lys	Ile	Val	Asn	Leu	Phe	Pro	Gln	Cys	Thr	Lys	Asp	Glu	Ile
				275				280				285			
Gln	Ile	Tyr	Gln	Ser	Asn	Leu	Ser	Val	Lys	Val	Ser	Ser			
				290				295				300			

<210> 4973

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4973

Glu Leu Gln Gly Asn Glu Met Leu Gly Asp Leu Gln Ser Phe Leu Gly
1 5 10 15

Ala Val Arg Ala Val Met Leu Asp Val Lys Ser Val Thr Trp Lys Ala
20 25 30

Asn Trp Lys Pro Trp Met Lys Val Tyr His Ala Gln Asn Thr Lys Lys
35 40 45

Asp Lys Ser Arg Arg His Arg Ala Ser Val Gly Phe Pro Glu Glu Glu
50 55 60

Thr Ala
65

4498

<210> 4974

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4974

Cys Leu Thr Ser Leu Phe Ile Leu Asp Leu Asn Phe Ser Phe Leu Pro
1 5 10 15

Ser Pro Phe Thr Ser Ile Arg Arg Leu His His His Phe Phe Gly Pro
20 25 30

Leu Thr Leu Leu Ser Phe Pro Phe Ser Phe Ser Phe Phe Asn Arg Met
35 40 45

Ser Ser Ile Leu Ser Leu His Ser Pro Pro Asp Ala Val Asp Ser Ala
50 55 60

Met Leu Trp Ile
65

<210> 4975

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4975

Cys Phe Ser Pro Phe Leu Gln Met Phe Val Ser Ser Ser Gly Leu Pro
1 5 10 15

Pro Ser Pro Val Pro Ser Pro Arg Arg Phe Ser Ser Arg Arg Ser Gln

4499

20							25					30				
Ser	Pro	Val	Lys	Cys	Ile	Arg	Pro	Ser	Val	Leu	Gly	Pro	Leu	Lys	Arg	
35							40			45						
Lys	Gly	Glu	Met	Glu	Thr	Glu	Ser	Gln	Pro	Lys	Arg	Leu	Phe	Gln	Gly	
50							55			60						
Thr	Thr	Asn	Met	Leu	Ser	Pro	Asp	Ala	Ala	Gln	Leu	Ser	Asp	Leu	Ser	
65		70					75					80				
Ser	Xaa	Ser	Asp	Ile	Leu	Asp	Gly	Ser	Xaa	Ser	Ser	Ser	Gly	Leu	Ser	
85				90					95							
Ser	Asp	Pro	Leu	Ala	Lys	Gly	Ser	Ala	Thr	Ala	Glu	Ser	Pro	Val	Ala	
100							105			110						
Cys	Ser	Asn	Ser	Cys	Ser	Ser	Phe	Ile	Leu	Met	Xaa	Asp	Leu	Ser	Pro	
115							120			125						

Lys

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<210> 4976
<211> 54
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 4976
Glu Arg Val Gln Val Asn Ala Asn Asp Val Leu Ala Thr Phe Ser Gln
1 5 10 15

Lys Ile Leu His Trp Asn Thr Asp Cys Asn Ile Lys Leu Leu Cys Val
20 25 30

4500

Tyr Cys Phe Tyr Xaa Cys Ile His Arg Xaa Val Phe Tyr Arg Tyr Ile
35 40 45

Arg Ser Met Ala Leu Xaa
50

<210> 4977

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4977

Val Ile Ala Val Gln Glu Pro Gly Val Pro Ser Arg Asp Pro Cys Leu
1 5 10 15

Glu Ala Gln Glu Arg Pro Ala Ala Ser Met Pro Trp Asp Ala Arg Arg
20 25 30

Pro Gly Gly Gly Ala Asp Gly Gly Pro Glu Ala Ser Gly Ala Ala Arg
35 40 45

Ser Arg Ala Gln Lys Gln Cys Arg Lys Ser Ser Phe Ala Phe Tyr Gln
50 55 60

Ala Val Arg Asp Leu Leu Pro Val Trp Leu Leu Gly Xaa Tyr
65 70 75

<210> 4978

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4978

Arg Glu Gln Pro Ala Gly His Thr Pro Leu Pro Val Pro Ala Xaa Gln
1 5 10 15

4501

Pro Val Asp Tyr Phe Ile Leu Ile Leu Gln Gly Arg Val Glu Val Glu
 20 25 30
 Ile Gly Lys Glu Gly Leu Lys Phe Glu Asn Gly Ala Phe Thr Tyr Tyr
 35 40 45
 Gly Val Ser Ala Leu Thr Val Pro Ser Ser Val His Gln Ser Pro Val
 50 55 60
 Ser Ser Leu Gln Pro Ile Arg His Asp Leu Gln Pro Asp Pro Gly Asp
 65 70 75 80
 Gly Thr His Ser Ser Ala Tyr Cys Pro Asp Tyr Thr Val Arg Arg Ser
 85 90 95
 Leu Ile Cys Ser Ser Ser Arg Leu Arg Asp Cys Ser Thr Ser Met His
 100 105 110
 Ser Trp Leu Pro Glu Pro Arg Thr Cys His Ser Pro Leu Arg Thr Pro
 115 120 125
 Thr Cys Ser Tyr Ser Arg Gln Pro Asp Gln Ala Pro Trp
 130 135 140

<210> 4979

<211> 79

<212> PRT

<213> Homo sapiens

<400> 4979

Lys Asp Leu Asp Asn Gln Thr Ile Ile Val Gly Asn Phe Asn Thr Pro
 1 5 10 15
 Leu Thr Val Leu Asp Arg Ser Leu Arg Gln Lys Thr Asn Lys Glu Met
 20 25 30
 Leu Asp Leu Asn Ser Ala Leu Asn Gln Leu Lys Leu Ile Asp Lys Tyr
 35 40 45
 Arg Thr Leu His Pro Lys Gly Met Leu Ile His Cys Trp Trp Lys Cys
 50 55 60
 Lys Leu Val Gln Ala Leu Arg Lys Ala Val Trp Arg Phe Leu Lys
 65 70 75

<210> 4980

<211> 56

4502

<212> PRT

<213> Homo sapiens

<400> 4980

Asp Pro Lys Cys Leu Gly Pro Lys Tyr Phe Gly Phe Phe Gln Ile Leu
 1 5 10 15

Glu Tyr Leu His Tyr Thr Leu Met Ser Ile Ser Phe Glu His His Val
 20 25 30

Gly Val Leu Lys Ala Ser Asp Phe Gly Ala Phe His Ile Leu Asp Phe
 35 40 45

Gln Ile Arg Asp Ala Gln Pro Val
 50 55

<210> 4981

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4981

Gly Xaa Tyr Gln Ala Asn Ile Ala Glu Leu Thr His Ala Asn Asn Arg
 1 5 10 15

Val Asp Gln Asn Glu Ala Glu Val Lys Lys Leu Arg Leu Arg Val Glu
 20 25 30

Glu Leu Lys Gln Gly Leu Asn Gln Lys Glu Asp Glu Leu Asp Asp Ser
 35 40 45

Leu Asn Gln Ile Arg Lys Leu Gln Arg Ser Leu Asp Glu Glu Lys Glu
 50 55 60

Arg Asn Glu Asn Leu Glu Thr Glu Leu Arg His Leu Gln Asn Trp
 65 70 75

<210> 4982

<211> 104

<212> PRT

<213> Homo sapiens

4503

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4982

Gly	Pro	His	Pro	Gly	Gly	Gly	Pro	Trp	Gly	Gly	Asp	Arg	Glu	Val	Ala
1				5					10					15	
Leu	Lys	Asn	Thr	Ala	Val	Leu	Ile	Leu	His	Ser	Met	Gly	Pro	His	Pro
			20					25					30		
Gly	Gly	Gly	Gly	Gly	Ser	His	Cys	Ile	Cys	Trp	Leu	Arg	Ala	Pro	Ala
		35					40					45			
Cys	Ala	Ser	Arg	Ala	Pro	Gly	Leu	Leu	Cys	Leu	Leu	Ser	Val	Pro	Ile
	50					55					60				
Ser	Ile	Lys	Gly	Leu	Pro	Leu	Gly	Gly	Gln	Lys	Lys	Lys	Lys	Lys	Lys
65					70					75					80
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
				85					90					95	
Lys	Lys	Lys	Xaa	Gly	Xaa	Pro	Phe								
			100												

<210> 4983
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 4983

Arg	Lys	Lys	Gln	Ile	Ala	Leu	Asn	Ala	Val	Tyr	Pro	Lys	Thr	Arg	Phe
1				5					10					15	
Pro	Gly	Cys	Pro	Ser	Thr	Leu	Tyr	Arg	Pro	Pro	Phe	Trp	Leu	Leu	Thr
			20					25					30		
Gln	Cys	Ile	Phe	Cys	Tyr	Ile	Lys	Met	Gly	Pro	Arg	Leu	His	Leu	Leu
		35					40					45			
Arg	Asn	Tyr	Lys	Leu	Leu	Gly	Val	Gln	Gly	Cys	Val	Ser	Tyr	Ile	Leu
	50					55					60				

4504

Pro
65

<210> 4984
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4984
Gly Val Lys Glu Ser Gly Val Thr Asn Val Val Ala Gly Ala Thr Leu
1 5 10 15
Lys Leu Cys Ser Val Pro Trp Lys Lys Glu Glu Glu Glu Glu Ala Lys
20 25 30
Leu Glu Gly Lys Ala Pro Gly Val Ser Ser Trp Asn Leu Arg Trp Glu
35 40 45
Glu Thr Leu Lys Val Ile Trp Ser Ser Ile Phe Gln Ser Met Phe His
50 55 60
Glu Leu Val Phe Gln Lys Trp Phe Pro Gly Leu Val Ser Gly Ser Ser
65 70 75 80
Met Arg Val Ala Val Val Tyr Phe Val His Arg Cys Ile Leu Xaa Asp
85 90 95

<210> 4985
<211> 77
<212> PRT
<213> Homo sapiens

<400> 4985
Ala Ala Gly Ser Asn Ala Ser Gln Ala Glu His Ser Val Ser Arg Asp
1 5 10 15
Ser Cys Val Glu Gln Ile Arg Val His Ala Gln Val Pro Arg Leu Glu
20 25 30

4505

Trp Leu Cys Gln Asn Pro Phe Lys Gly Phe Ser Phe Ser Leu Leu Gly
 35 40 45

Gln Asn Ile Leu Ser His Leu Gly Arg Phe Arg Met Gly Arg Ala Asn
 50 55 60

Leu Asn Lys Arg Phe Phe Leu Tyr Pro Glu Ile Glu Gly
 65 70 75

<210> 4986

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4986

Leu Leu Ala Pro Thr Arg Arg His Ser Pro Gly Ser Pro Ala Phe Ala
 1 5 10 15

Pro Ser Ser Arg Ala Thr Ala Met Cys Pro Arg Ala Ala Arg Ala Pro
 20 25 30

Ala Thr Leu Leu Leu Ala Leu Gly Ala Val Leu Trp Pro Ala Ala Gly
 35 40 45

Ala Trp Glu Leu Thr Ile Leu His Thr Asn Asp Val His Ser Arg Leu
 50 55 60

Glu Gln Thr Ser Glu Asp Ser Ser Lys Cys Val Asn Ala Ser Arg Cys
 65 70 75 80

Met Gly Gly Val Ala Arg Leu Phe Thr Lys Val Gln Gln Ile Arg Arg
 85 90 95

4506

Ala Glu Pro Asn Val Leu Leu Leu Asp Ala Gly Asp Gln Tyr Gln Gly
 100 105 110
 Thr Ile Trp Phe Thr Val Tyr Lys Gly Ala Glu Val Ala His Phe Met
 115 120 125
 Asn Ala Leu Arg Tyr Asp Ala Met Ala Leu Gly Asn His Glu Phe Asp
 130 135 140
 Asn Gly Val Glu Gly Leu Ile Glu Pro Leu Leu Lys Glu Ala Lys Phe
 145 150 155 160
 Pro Ile Leu Ser Ala Asn Ile Lys Ala Lys Gly Pro Leu Ala Ser Gln
 165 170 175
 Ile Ser Gly Leu Tyr Leu Pro Tyr Lys Val Leu Pro Xaa Gly Asp Glu
 180 185 190
 Xaa Val Gly Ile Val Gly Tyr Thr Xaa Lys Glu Thr Pro Phe Leu Ser
 195 200 205
 Asn Pro Gly Thr Asn Leu Val Phe Glu Asp Glu Ile Thr Ala Leu Gln
 210 215 220
 Pro Glu Val Asp Lys Leu Lys Thr Leu Asn Val Asn Lys Ile Ile Ala
 225 230 235 240
 Leu Gly His Ser Gly Phe Glu Met Asp Lys Leu Ile Ala Gln Lys Val
 245 250 255
 Arg Gly Val Asp Val Val Val Gly Gly His Ser Asn Thr Phe Leu Tyr
 260 265 270
 Thr Gly Asn Cys Phe Lys Arg Ile Ala Trp Ala Arg Met Ser Arg
 275 280 285

<210> 4987

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4987

Tyr Ala Ser Leu Gln Cys Tyr Trp Ser Lys Cys Met Ser Ile Ser Gln
 1 5 10 15
 Arg Leu Tyr Pro Cys Ser Leu Thr Leu Gly Asn Leu Lys Ala Leu Ile
 20 25 30
 Leu Leu Leu Ser Pro His Lys Glu Val Leu Leu Ser Gly Gly Arg Ala

4507

35 40 45
 Asp Val Gly His Pro Thr Glu Asn Phe Arg Asn His Val Arg Asp Asp
 50 55 60
 Ala Ser His Glu Arg Leu Arg Ala Ser Phe Arg Phe Gly Asn Ile Leu
 65 70 75 80

Lys

<210> 4988

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4988

Leu Ala Ser Ser Arg Gly Gln Arg Thr Asp Ile Leu Pro Thr Phe Gly
 1 5 10 15

Gly Pro Arg Glu Ala Pro Gly Ala Lys Val Leu Ala Leu Val Pro Gly
 20 25 30

Thr Gln Glu Met Pro Ser Pro Val Gly Leu Leu Arg Ala Leu Pro Leu
 35 40 45

Pro Trp Pro Gln Phe Leu Ala Cys Thr Leu Arg Arg Leu Ala Gly Pro
 50 55 60

Arg Xaa Ser Thr Gly Pro Ser Gln Lys Pro Pro Pro Leu Cys Ser Val
 65 70 75 80

Pro Cys Arg Val Pro Ala Asn Asp Gly Gly Gly Gly Pro Gly Lys Pro
 85 90 95

4508

Ser Ser Ala Leu Trp Thr Xaa Ser Ala Cys Tyr Ser Glu Xaa Gly Leu
 100 105 110

Glu Thr Ser Ser Ser Arg Ser
 115

<210> 4989
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 4989
 Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ala Thr Val Pro
 20 25 30

Gly Leu Pro Trp Leu Phe Ser
 35

<210> 4990
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 4990
 Ala Phe Tyr Cys Arg Pro Ser Pro Glu Lys Gly Ala Arg Val Phe Pro
 1 5 10 15

Glu Pro Arg Cys Gln Gly Pro Arg Thr Pro Phe Thr Ala Asp Pro Leu
 20 25 30

Gln Arg Leu Gly Arg Gly Leu Trp Arg Thr Trp Phe Leu Leu Thr Val
 35 40 45

Leu Pro Leu Gly Pro Pro Ser Gln Thr Gln Thr Ile Gln Asp Pro Leu
 50 55 60

Ser Val Arg Pro Asn Gly Asn Ser Glu Ala Val Ile Phe Pro Pro Leu
 65 70 75 80

Pro Leu His Ser Leu Val Phe Cys Pro Leu Leu Cys Ser Ser Leu Pro
 85 90 95

Pro

4509

<210> 4991

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4991

Met	Glu	Lys	Leu	Val	Leu	Asp	His	Asp	Gly	Lys	Gly	Val	Leu	Glu	Leu
1				5					10				15		

Leu	Pro	Phe	Gly	Ile	Thr	Asp	Arg	Thr	Asp	Phe	Leu	Ser	Leu	Ile	Arg
			20					25					30		

Asn	Ile	Tyr	Asn	Leu	Phe	Ser	Lys	Ser	Ala	Thr	Arg	Arg	Leu	His	Leu
		35					40					45			

His	Asp	Lys	Thr	Leu	Val	Ser	Thr	Thr	Pro	Tyr	Leu	Asn	Pro	Asp	Ser
	50						55				60				

Pro	Lys	Phe	Leu	Asp	Asn	Asn	Leu	Thr	Xaa	Ser	Ile	His	Ala	Asn	Gln
65					70					75					80

<210> 4992

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4992

Leu	Phe	Pro	Thr	His	Pro	Lys	Pro	Arg	Thr	Arg	Leu	Phe	Ser	Leu	Ser
1				5					10					15	

Ser	Gly	Arg	Met	Arg	Arg	Ala	Gly	Leu	Gly	Glu	Gly	Val	Pro	Pro	Gly
			20					25					30		

Asn	Tyr	Gly	Asn	Tyr	Gly	Tyr	Ala	Asn	Ser	Gly	Tyr	Ser	Ala	Cys	Glu
		35					40					45			

Glu	Glu	Asn	Glu	Arg	Leu	Thr	Glu	Ser	Leu	Arg	Ser	Lys	Val	Thr	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4510

50		55		60	
Ile Lys Ser Leu Ser Ile Glu Ile Gly His Glu Val Lys Thr Gln Asn					
65		70		75	80
Lys Leu Leu Ala Glu Met Asp Ser Gln Phe Asp Ser Thr Thr Gly Phe					
	85		90		95
Leu Gly Lys Thr Met Gly Lys Leu Lys Ile Leu Ser Arg Gly Ser Gln					
	100		105		110
Thr Lys Leu Leu Cys Tyr Met Met Leu Phe Ser Leu Phe Val Phe Phe					
	115		120		125
Ile Ile Tyr Trp Ile Ile Lys Leu Arg					
	130		135		

<210> 4993

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4993

Ser Thr Leu Leu Leu Leu Pro Leu Pro Val Arg Pro Ala Phe Gly Glu					
1		5		10	15
Lys Val Arg Leu Glu Leu Arg Arg Ala Ala Asn Pro Thr Val Pro Phe					
	20		25		30
Arg Cys Leu Val Leu Pro Leu Gln Pro Arg Thr Leu Thr Phe Lys Arg					
	35		40		45
Val Thr Ala Gly Arg Gln Gly Arg Gly Ser Arg Thr Leu Ser Glu Cys					
	50		55		60
Leu Ala Val Pro Trp Pro Val Arg Ala Ser Trp Leu Thr Phe Gln Leu					
	65		70		75
Ala Glu Leu Trp Asp Thr Ser Phe Leu Val Ser Cys Ala Arg Ser Tyr					
	85		90		95
Gly Lys Arg Glu Leu Gln Leu Arg Phe Ser Ser Ser Gln Thr Val Lys					
	100		105		110

4511

<210> 4994

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4994

His	Val	Ala	Leu	Trp	Leu	Lys	Phe	Phe	Asn	Leu	Glu	Met	Thr	Gln	Thr
1				5					10					15	

His	Arg	Arg	Cys	Ser	Asn	Thr	Thr	Tyr	Ser	Ala	Asn	Leu	Gly	Lys	Gly
			20					25					30		

Thr	Ser	Gln	Leu	Ala	Arg	Phe	Pro	His	Tyr	Leu	Pro	Cys	Ile	His	Ala
		35					40					45			

Ala	His	Val	Phe	Phe	Ile	Arg	Met	Leu	Val	Lys	Phe	Trp	Leu	Leu	Tyr
	50					55					60				

Ile

65

<210> 4995

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4995

Leu	Lys	Xaa	Cys	Val	Cys	Met	Gln	Thr	Tyr	Val	Asn	Thr	His	Ile	His
1				5					10					15	

Ile	Gly	Tyr	Asp	Asp	Asp	Asn	Tyr	Leu	Leu	Gln	Ile	Arg	Cys	Leu	Leu
			20					25					30		

Tyr	Val	Tyr
		35

<210> 4996

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4996

4512

Lys Ile Ile Ser Thr Phe Ile Leu Phe Thr Asn Lys Leu Pro Phe Lys
 1 5 10 15

Lys Ile Lys Pro His Tyr Leu Asn Ile Lys Leu Pro Asn Asn Ile Val
 20 25 30

Leu Lys Cys Thr Ile Leu Thr
 35

<210> 4997

<211> 157

<212> PRT

<213> Homo sapiens

<400> 4997

Ala Ala Ala Cys Gly Leu Glu Thr Arg Glu Asp Gly Arg Gly Arg Gly
 1 5 10 15

Leu Leu Val Phe Tyr Gly Pro Ser Thr Pro Thr Thr Thr His Ser Ser
 20 25 30

Trp Arg Pro Arg Ala Thr Val Gly Leu Leu Gly Ile Leu Arg Leu Arg
 35 40 45

Leu Val Glu Thr Pro Gly Asp Gly Gly Ala Leu Gly His Ser Glu Thr
 50 55 60

Ala Leu Gly Gly Ala Pro Tyr Trp Pro Asp Trp Ile Ser Gln Pro Ala
 65 70 75 80

Thr Gln Pro Gln Ala Thr Arg Lys Lys Pro Asp Leu Gly Asn Ser Ser
 85 90 95

Ser Ser Phe Phe Phe Phe Phe Leu Ile Ala Leu Gly Asn Phe Pro Asn
 100 105 110

Leu Gly Pro Ser Ser Phe Ser Lys Leu Arg Ser His Gly Leu Ser Pro
 115 120 125

Ala Ser Pro Val Cys Thr Arg Arg Arg Phe Ile Phe Ser Pro Leu Val
 130 135 140

Ser Phe Tyr Cys Leu Leu Arg Pro Ser Ser Cys Ser His
 145 150 155

<210> 4998

<211> 44

4513

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4998

Asn	Tyr	Arg	Ser	Lys	Leu	Phe	Val	Asp	Asn	Phe	Arg	Val	Lys	Phe	Asp
1				5					10					15	

Asn	Leu	Gly	Tyr	Leu	Pro	Asn	Phe	Lys	Ile	Glu	Val	Arg	Ile	Ser	Val
			20					25					30		

Thr	Gln	Pro	Trp	Glu	Xaa	Trp	Xaa	Ser	His	Ile	Arg
			35				40				

<210> 4999

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4999

Thr	Glu	Asp	Leu	Phe	Gly	Phe	Lys	His	Leu	Leu	Arg	Gln	Tyr	Leu	Leu
1				5					10					15	

Gly	Lys	Pro	Asn	Ile	Ala	Asn	Gly	Gln	Phe	Asp	Phe	Asn	Phe	Ser	Lys
			20					25					30		

Asp	Thr	Leu	Leu	Ser	Arg	Arg	Leu	Lys	Cys	Leu	His
			35					40			

<210> 5000

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

4514

<400> 5000

Glu Xaa Val Leu Lys Pro Phe Ile Ser Phe Tyr Phe Ala Ile Cys Lys
1 5 10 15

Cys Leu Leu Ser Ser Leu His Glu Val Ala Val Thr Phe Phe Thr Phe
20 25 30

Lys Leu Pro Phe Tyr Phe
35

<210> 5001

<211> 34

<212> PRT

<213> Homo sapiens

<400> 5001

Pro Leu Leu Ser Leu His Val Ser Ile Glu Gly Ser Gly Ile Pro Gly
1 5 10 15

Trp Gln Leu Met Asp Lys Arg His Tyr Ala Lys Ile Gln Phe Trp Ile
20 25 30

Ser Tyr

<210> 5002

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5002

4515

Xaa Leu Gly Tyr Thr Xaa Xaa Lys Gly Thr Lys Ala Gly Val Thr Ala
 1 5 10 15
 Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Trp
 20 25 30
 His Glu Pro Lys Gly Thr Gln Cys Gly Met Thr Lys Tyr Leu Leu Ser
 35 40 45
 Glu Ser Thr Ala Phe Thr Tyr Leu Pro Val Phe Lys Ile Phe Val Lys
 50 55 60
 Ser Tyr Lys Lys Leu Gln Phe Asp Gln Ile Trp Val Tyr Ala Val Cys
 65 70 75 80
 Tyr Pro Gln Arg His Phe Glu Ser Ser Cys Asp Ala Phe Asn Asn Val
 85 90 95
 Leu Ser Leu Leu Ile Pro Leu Ser Asn Leu Ile Trp Tyr Ser Gln Asn
 100 105 110
 Ser Tyr Ser Leu Arg Gly Asn
 115

<210> 5003

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5003

Val Cys Ile Tyr Phe Phe Ser Lys Glu Thr Ala Tyr Ile Phe His Val
 1 5 10 15

Ser Met Phe Leu Arg Pro Trp Val Thr Val Gly Ile Ala Leu Met Gly

4516

	20		25		30										
Ala	Xaa	Gln	Ala	Trp	Gly	Leu	Val	Leu	Ala	Leu	Asp	Leu	Glu	Gln	Gly
	35		40		45										
Thr	Ser	Pro	Ala	Gly	Leu	Gln	Phe	Ser	Pro	Leu	Xaa	Asn	Glu	Arg	Xaa
	50		55		60										
Glu	Leu	Ser	Asp	Leu	Lys	Ser	Phe	Gln							
	65		70												

<210> 5004

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5004

Ile	Ala	Asn	Ser	Ser	Leu	Gly	Leu	Ala	Leu	Ser	Val	Asp	Phe	Ser	Met
1				5					10					15	
Leu	Arg	Arg	Lys	Pro	Thr	Arg	Leu	Glu	Leu	Lys	Leu	Asp	Asp	Ile	Glu
			20					25					30		
Glu	Phe	Glu	Asn	Ile	Arg	Lys	Asp	Leu	Glu	Thr	Arg	Lys	Lys	Gln	Lys
	35						40					45			
Glu	Asp	Val	Glu	Val	Val	Gly	Gly	Ser	Asp	Gly	Glu	Gly	Ala	Ile	Gly
	50					55					60				
Leu	Ser	Ser	Asp	Pro	Lys	Ser	Arg	Glu	Gln	Met	Ile	Asn	Asp	Arg	Ile
	65				70					75				80	
Gly	Tyr	Lys	Pro	Gln	Pro	Lys	Pro	Asn	Asn	Arg	Ser	Ser	Gln	Phe	Gly
				85					90					95	
Ser	Leu	Glu	Phe												
			100												

<210> 5005

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

4517

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (278)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5005

Val	Leu	Leu	Leu	Gln	Lys	Asp	Ser	Leu	Leu	Thr	Ala	Ala	Gln	Leu	Lys
1				5					10					15	

Ala	Lys	Gly	Glu	Leu	Ser	Phe	Glu	Gln	Asp	Gln	Leu	Val	Ala	Gly	Gly
			20					25					30		

Gln	Leu	Gly	Glu	Leu	His	Asn	Gly	Thr	Gln	Tyr	Arg	Glu	Val	Arg	Gln
		35					40					45			

Phe	Cys	Ser	Gly	Ser	Gly	His	His	Leu	Val	Arg	Phe	Tyr	Phe	Leu	Thr
	50					55					60				

Arg	Val	Tyr	Ser	Glu	Tyr	Leu	Glu	Asp	Val	Leu	Glu	Glu	Leu	Thr	Tyr
65					70					75					80

Gly	Pro	Ala	Pro	Asp	Leu	Val	Ile	Ile	Asn	Ser	Cys	Leu	Trp	Asp	Leu
				85					90					95	

Ser	Arg	Tyr	Gly	Arg	Cys	Ser	Met	Glu	Ser	Tyr	Arg	Glu	Asn	Leu	Glu
			100					105					110		

Arg	Val	Phe	Val	Arg	Met	Asp	Gln	Val	Leu	Pro	Asp	Ser	Cys	Leu	Leu
		115					120					125			

Val	Trp	Asn	Met	Ala	Met	Pro	Leu	Gly	Glu	Arg	Ile	Thr	Gly	Gly	Phe
	130					135					140				

Leu	Leu	Pro	Glu	Leu	Gln	Pro	Leu	Ala	Gly	Ser	Leu	Arg	Arg	Asp	Val
145					150					155					160

Val	Glu	Gly	Asn	Phe	Tyr	Ser	Ala	Thr	Leu	Ala	Gly	Asp	His	Cys	Phe
			165						170					175	

Asp	Val	Leu	Asp	Leu	His	Phe	His	Phe	Arg	His	Ala	Val	Gln	His	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4518

	180		185		190	
His Arg Asp Gly Val His Trp Asp Gln His Ala His Arg His Leu Ser						
195		200		205		
His Leu Leu Leu Thr His Val Ala Asp Ala Trp Gly Val Glu Leu Pro						
210		215		220		
Lys Arg Gly Tyr Pro Pro Gly Glu Pro Tyr His Lys Trp Gly Gly Ser						
225		230		235		240
Asp Ala Leu Gly Pro Ser Glu Asp Arg Ala Xaa Lys Gln Asn Gly Thr						
	245		250		255	
Gln Pro Leu Lys Gly Ser Xaa Gly Pro Leu Lys Asp Ser Cys Gly Phe						
	260		265		270	
Cys Met His Leu Xaa Xaa Pro Leu Arg						
275		280				

<210> 5006

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5006

Arg Tyr Tyr Leu Ile Ile Ile Lys Ile Arg Gly His Ser Phe Glu Pro
1 5 10 15

4519

Ser Leu Thr Phe Gln Phe Lys Leu Gly Pro Xaa Pro Ser Lys Xaa Leu
 20 25 30

Gly Phe Arg His Xaa Pro Leu Val Leu Ala Gly Leu Xaa
 35 40 45

<210> 5007

<211> 95

<212> PRT

<213> Homo sapiens

<400> 5007

Asn Met Tyr Gly Thr Ser Cys Leu Ile Leu His Val Thr Ser Leu Leu
 1 5 10 15

Tyr Ile Asp Glu Val Leu Val Thr Leu Ser Ser Asn Thr Leu Pro Leu
 20 25 30

Leu Phe Arg Glu Cys Leu Arg Asp Phe Leu Tyr Trp Phe Tyr Tyr Ser
 35 40 45

Asp Tyr Gly Leu Asp Leu Ser Ile Leu Leu Leu Pro Pro Gly Phe Leu
 50 55 60

Ile Ile His Pro Ser Lys Leu Ile Phe Cys Glu Ala Phe Val Ser Gln
 65 70 75 80

Ile Lys Thr Leu Leu Glu Pro Lys Val Val Ala Asp Gly Tyr Leu
 85 90 95

<210> 5008

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5008

Leu Pro Lys Gln Ile Leu Asp Arg His Cys Ile Tyr Trp Tyr Gly Ser
 1 5 10 15

Gly Leu Tyr Gly Val Val Cys Thr His Leu Gly Leu Phe Ser Leu Asn
 20 25 30

Pro Ala Pro Asn Glu Ser Gly Gly Arg Val His Ser Ile Ser Phe Asn
 35 40 45

Val Val Met His His Lys Leu Asn Ile Arg Met Lys Met Lys Leu Asp
 50 55 60

4520

Phe Asp Val Ser Leu Lys Pro Phe Pro Cys Pro Ile His Ser Pro Pro
 65 70 75 80

Pro Pro

<210> 5009

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5009

Ser Leu Ser Ser Pro Ala Val Lys Met Leu Ile Met Ile Leu Thr Leu
 1 5 10 15

Lys Ile Arg Pro His Lys Glu Gln Gly Asn Ser Arg Gly Gly Thr Gln
 20 25 30

Leu Gly Glu Ser Arg Pro Gly Gln Gly Lys Glu Thr His Lys Pro Asn
 35 40 45

Arg Ala Ala Leu Gly Lys Val Leu Ile Ser Trp Cys Cys Phe Leu Ser
 50 55 60

His Met Pro Ile Pro Gln Ala Val Pro Leu Ser Trp Leu Cys Arg Met
 65 70 75 80

Ser Ser Ser

<210> 5010

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5010

Tyr Pro Ser Val Thr Ser Gly Thr Phe Arg Arg Lys Pro Asn Ser Ser
 1 5 10 15

Val Trp Cys Thr Arg Ser Ser Asp Val Phe Pro Pro Pro Asn Val Leu
 20 25 30

Val Lys Gln Thr Tyr Thr Ser Ser Glu Ala Thr Phe Gly Gln Ala Ser
 35 40 45

Arg Leu Gly Lys Cys Cys Thr Leu Cys Ile Lys Cys Ala Ser His Pro

4521

50 55 60
 Ser Pro Leu Gly Lys Phe Leu Cys Ile Leu Gln Ala
 65 70 75

 <210> 5011
 <211> 95
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5011
 Pro Ile Ile Pro Met Phe Thr Gln Asn Ile Arg Glu Gly Phe Arg Ser
 1 5 10 15
 Leu Gly Gly Thr Arg Leu Phe Arg Trp Leu Tyr Glu Lys Phe Arg Tyr
 20 25 30
 Pro Phe Ala Pro Met Tyr Gly Gly Phe Pro Val Lys Leu Arg Thr Tyr
 35 40 45
 Leu Gly Asp Pro Ile Pro Tyr Asp Pro Gln Ile Thr Ala Glu Glu Leu
 50 55 60
 Ala Glu Lys Thr Xaa Asn Ala Val Gln Ala Leu Ile Asp Lys His Gln
 65 70 75 80
 Arg Ile Pro Gly Asn Ile Met Ser Ala Leu Leu Glu Arg Phe His
 85 90 95

<210> 5012
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 5012
 Ala Ala Arg Ala Leu Ser Leu Ser Leu Ser Pro Glu Val Asp Phe Pro
 1 5 10 15
 Val Pro Pro Gly Arg Gly Arg Ser Val Glu Ser Val Gln Ser Gln Pro
 20 25 30
 Gln Glu Pro Val Ser Val Pro Gln Thr Leu Thr Ser Thr Leu Glu His

4522

35 40 45
 Ile Val Gly Gln Leu Asp Val Leu Thr Gln Thr Val Ser Ile Leu Glu
 50 55 60
 Gln Arg Leu Thr Leu Thr Glu Asp Lys Leu Lys Gln Cys Leu Glu Asn
 65 70 75 80
 Gln Gln Leu Ile Met Gln Arg Ala Thr Pro
 85 90

 <210> 5013
 <211> 178
 <212> PRT
 <213> Homo sapiens

 <400> 5013
 His Glu Leu Arg Arg Arg Met Leu Glu Ala Ala Asp Phe Ala Ala Arg
 1 5 10 15
 Lys His Arg Gln Gln Arg Arg Lys Asp Pro Glu Gly Thr Pro Tyr Ile
 20 25 30
 Asn His Pro Ile Gly Val Ala Arg Ile Leu Thr His Glu Ala Gly Ile
 35 40 45
 Thr Asp Ile Val Val Leu Gln Ala Ala Leu Leu His Asp Thr Val Glu
 50 55 60
 Asp Thr Asp Thr Thr Leu Asp Glu Val Glu Leu His Phe Gly Ala Gln
 65 70 75 80
 Val Arg Arg Leu Val Glu Glu Val Thr Asp Asp Lys Thr Leu Pro Lys
 85 90 95
 Leu Glu Arg Lys Arg Leu Gln Val Glu Gln Ala Pro His Ser Ser Pro
 100 105 110
 Gly Ala Lys Leu Val Lys Leu Ala Asp Lys Leu Tyr Asn Leu Arg Asp
 115 120 125
 Leu Asn Arg Cys Thr Pro Glu Gly Trp Ser Glu His Arg Val Gln Glu
 130 135 140
 Tyr Phe Glu Trp Ala Ala Gln Val Val Lys Gly Leu Gln Gly Thr Asn
 145 150 155 160
 Arg Gln Leu Glu Glu Ala Leu Lys His Leu Phe Lys Gln Arg Gly Leu
 165 170 175

4523

Thr Ile

<210> 5014

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5014

Thr	Ile	Phe	Ala	Val	Met	Xaa	Ser	Phe	Asn	Val	Ser	Phe	Gln	Xaa	Gly
1				5					10					15	

Pro	Ile	Lys	Val	Phe	Leu	Tyr	Leu	Val	Asn	Lys	Asp	His	Ser	Cys	Gly
			20					25					30		

Leu	Val	Arg	Gly	Cys	Ile	His	Arg	Leu	Trp	Glu	Ala	Val	Val	Cys	Val
		35					40					45			

Cys	Val	Ser	Ile	Ser	Ile	Phe	Tyr	Val	Tyr	Asn	Ser	Ala	Tyr
	50					55					60		

<210> 5015

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5015

Ser	Thr	Ala	Leu	Gly	Ala	Gly	Gly	Ala	Phe	Ser	Val	Pro	Leu	Leu	Ser
1				5					10					15	

Leu	Leu	Ser	Ala	Ser	Leu	Val	Leu	Pro	Ala	His	Phe	His	Asn	Val	Leu
			20					25					30		

Leu	Gly	Cys	Ile	Gly	Ile	Val	Cys	Cys	Leu	Asp	Pro	Trp	Pro	Arg	Leu
		35					40					45			

4524

Ser Leu Pro Val Arg Glu Thr Lys Leu Thr Thr Lys Gly Phe Cys Gln
 50 55 60

Ile Ala Phe Ile Tyr Arg Ile Cys Pro Phe Met Cys Leu Cys Val Tyr
 65 70 75 80

Gly Leu Asn Gly Phe Leu Thr Ser Lys Lys
 85 90

<210> 5016

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5016

Val Tyr Arg Val Leu Lys Pro Leu Lys Xaa Asn Ala Asn Xaa Ala Lys
 1 5 10 15

Ser Leu Leu Leu Thr Thr Ile Pro Gln Ile Gly Ser Thr Glu Trp Ser
 20 25 30

Glu Thr Leu Xaa Asn Leu Lys Asn Met Ala Gln Phe Ser Val Leu Leu
 35 40 45

Pro Arg His
 50

<210> 5017

<211> 333

<212> PRT

<213> Homo sapiens

4525

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5017

Gly	Arg	Arg	Ala	Gln	Arg	Ser	Thr	Pro	Arg	Ser	Leu	Ala	Arg	Val	Ser
1				5					10					15	

Gln	Arg	Gly	Pro	Thr	Arg	Tyr	Ala	Asp	Ala	Pro	Thr	Pro	Ile	Arg	Pro
			20					25					30		

Ser	Gln	Asp	Ser	Thr	Met	Thr	Leu	Asn	Asn	Val	Thr	Met	Arg	Gln	Gly
		35					40					45			

Thr	Val	Gly	Met	Gln	Pro	Gln	Gln	Gln	Arg	Trp	Ser	Ile	Pro	Ala	Asp
	50					55					60				

Gly	Arg	His	Leu	Met	Val	Gln	Lys	Glu	Pro	His	Gln	Tyr	Ser	His	Arg
65					70					75					80

Asn	Arg	His	Ser	Ala	Thr	Pro	Glu	Asp	His	Cys	Arg	Arg	Ser	Trp	Ser
				85					90					95	

Ser	Asp	Ser	Thr	Asp	Ser	Val	Ile	Ser	Ser	Glu	Ser	Gly	Asn	Thr	Tyr
			100					105					110		

Tyr	Arg	Val	Val	Leu	Ile	Gly	Glu	Gln	Gly	Val	Gly	Lys	Ser	Thr	Leu
		115					120					125			

Ala	Asn	Ile	Phe	Ala	Gly	Val	His	Asp	Ser	Met	Asp	Ser	Asp	Cys	Xaa
	130					135					140				

Val	Leu	Gly	Glu	Asp	Thr	Tyr	Glu	Arg	Thr	Leu	Met	Val	Asp	Gly	Glu
145					150					155					160

Ser	Ala	Thr	Ile	Ile	Leu	Leu	Asp	Met	Trp	Glu	Asn	Lys	Gly	Glu	Asn
			165						170					175	

Glu	Trp	Leu	His	Asp	His	Cys	Met	Gln	Val	Gly	Asp	Ala	Tyr	Leu	Ile
		180						185					190		

Val	Tyr	Ser	Ile	Thr	Asp	Arg	Ala	Ser	Phe	Glu	Lys	Ala	Ser	Glu	Leu
		195					200					205			

Arg	Ile	Gln	Leu	Arg	Arg	Ala	Arg	Gln	Thr	Glu	Asp	Ile	Pro	Ile	Ile
	210					215					220				

Leu	Val	Gly	Asn	Lys	Ser	Asp	Leu	Val	Arg	Cys	Arg	Glu	Val	Ser	Val
225					230					235					240

4526

Ser Glu Gly Arg Ala Cys Ala Val Val Phe Asp Cys Lys Phe Ile Glu
 245 250 255
 Thr Ser Ala Ala Val Gln His Asn Val Lys Glu Leu Phe Glu Gly Ile
 260 265 270
 Val Arg Gln Val Arg Leu Arg Arg Asp Ser Lys Glu Lys Asn Glu Arg
 275 280 285
 Arg Leu Ala Tyr Gln Lys Arg Lys Glu Ser Met Pro Arg Lys Ala Arg
 290 295 300
 Arg Phe Trp Gly Lys Ile Val Ala Lys Asn Asn Lys Asn Met Ala Phe
 305 310 315 320
 Lys Leu Lys Ser Lys Ser Cys His Asp Leu Ser Val Leu
 325 330

<210> 5018
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 5018
 Glu Pro Leu Trp Glu Asn Leu Phe Leu Pro Pro Leu Gly Lys Gln Lys
 1 5 10 15
 Asn Phe Ser Val Phe Gly Glu Tyr Phe Arg Asn Ser Asn Glu Arg His
 20 25 30
 Cys Phe Ser Cys Trp Leu Thr Gly Leu Lys Gly Ala Phe Val Leu Leu
 35 40 45
 Gly Gln Gly Glu Arg Gly Asp Pro Arg Lys Val Ser Leu Pro Glu Asp
 50 55 60
 Gly Gln Pro Pro Gly Leu Gln Leu Gln Val His Ile Thr Arg Thr Ala
 65 70 75 80
 Trp Gln Pro Gly Pro Pro Gly Ala His Ser Arg Gln Pro Leu Pro Arg
 85 90 95
 Gly Leu Ile Leu Gln
 100

<210> 5019
 <211> 52

4527

<212> PRT

<213> Homo sapiens

<400> 5019

Arg Tyr Leu Ile Ser Leu Ser Cys Asn Leu Tyr Leu Gln Thr Gly Val
 1 5 10 15

Ser Asn Pro Ile Asn Leu Ile Ala Asp Ile Val Arg Lys Asn Glu Met
 20 25 30

Thr Ser Val Lys Thr Gln Asn Tyr Thr Tyr Lys Val Ser Arg Gln Asn
 35 40 45

Met Leu Leu Leu
 50

<210> 5020

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5020

Pro Val Asp Ser Cys Ala Val Ser Pro Gly Val Ala Lys Glu Ala Ala
 1 5 10 15

Ser Gly Ser Trp Gly Leu Val Ala Arg Ser Gln Gln Glu Cys Leu Leu
 20 25 30

Tyr Phe Val Arg Asp Ala Glu Gln Ile Ser Asn Ser Val Ala Val Met
 35 40 45

Leu Ala Ser
 50

<210> 5021

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5021

Thr Ser Ser Thr Ile Asn Cys Ser Leu Gly Thr Phe Tyr Ala Gln Asn
 1 5 10 15

Cys Ala Pro Ser Ser Glu Gln Gln Val Phe Asn Gly Pro Cys Asp Glu
 20 25 30

Lys Gly Pro Ile Lys Ala Ala Gly Met Gly His Ser Pro Thr Pro His

4528

35 40 45
 Gly Pro Gly His Cys His Ser Cys Cys Pro Ala Ser Pro Gly Leu Trp
 50 55 60
 Leu His Gly Arg Ser His Phe Cys Lys Lys Phe Thr Phe Leu Lys
 65 70 75

<210> 5022
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 5022
 Asn Leu Lys Pro Pro Leu Glu Pro Pro Phe Cys Arg Val Phe Gly Lys
 1 5 10 15
 Arg Lys Lys Gly Leu Cys Leu Arg Leu Trp Gly Arg Gly Asp Tyr Val
 20 25 30
 Thr Ser Val Gln Thr Ala Gly Asn Leu Lys Thr Val Leu Ser Leu Phe
 35 40 45
 Leu Tyr Ile Val Phe Ile Tyr Lys Lys Lys Arg Leu Arg Met His Ala
 50 55 60
 Lys Leu Leu Phe Ser Val Ser His Arg Pro Arg Trp Asn Val Lys
 65 70 75

<210> 5023
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 5023
 Leu Leu Gln Val Asp Phe His Asn Met Gln Ser Gly Gly Gly Val Lys
 1 5 10 15
 Thr Asp Asp Thr Ser Thr Leu Asn Ser Leu Cys Gly Tyr Ala Trp Val
 20 25 30
 Tyr Val Trp Glu Glu Lys Gln Arg Cys Arg Leu Ser Ser Phe Phe Ser
 35 40 45
 Ser Ser Ala Ser Ile Pro Gly Leu Leu Pro Ser His Thr Leu Asp Leu
 50 55 60

4529

Val Gln Asn Val Gly Val Val Leu Asp Glu Ala Leu Gly Trp Gly Arg
 65 70 75 80

Glu Arg Glu Leu Cys Val Lys Cys Leu Leu Glu Met His Cys Gly Val
 85 90 95

Phe Ser Cys Met Gly Asn His Leu Cys Gln Ala Phe Pro His Phe Pro
 100 105 110

Tyr Leu Ser His Leu Val Ser Cys Leu Cys Phe Gln Leu Cys Val Ile
 115 120 125

Leu Phe Ala Ser Cys Thr Lys Leu Ile Phe Ser Lys Val
 130 135 140

<210> 5024
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 5024
 Gly Thr Arg Val Ser Asp Leu Ala Thr Ile Ser Leu Gly Ser Cys Gln
 1 5 10 15

Asn Leu Ile Phe Ser Leu Lys Thr Pro Ile Cys Ser His Ser
 20 25 30

<210> 5025
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 5025
 Ile Phe Gly Met Ser Lys Leu Arg Met Val Leu Leu Glu Asp Ser Gly
 1 5 10 15

Ser Ala Asp Phe Arg Arg His Phe Val Asn Leu Ser Pro Phe Thr Ile
 20 25 30

Thr Val Val Leu Leu Leu Ser Ala Cys Phe Val Thr Ser Ser Leu Gly
 35 40 45

Gly Thr Asp Lys Glu Leu Arg Leu Val Asp Gly Glu Asn Lys Cys Ser
 50 55 60

Gly Arg Val Glu Val Lys Val Gln Glu Glu Trp Gly Thr Val Cys Asn
 65 70 75 80

4530

Asn Gly Trp Ser Met Glu Ala Val Ser Val Ile Cys Asn Gln Leu Gly
 85 90 95
 Cys Pro Thr Ala Ile Lys Ala Pro Gly Trp Ala Asn Ser Ser Ala Gly
 100 105 110
 Ser Gly Arg Ile Trp Met Asp His Val Ser Cys Arg Gly Asn Glu Ser
 115 120 125
 Ala Leu Trp Asp Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys
 130 135 140
 Thr His Cys Glu Pro Arg Asn Ala Thr Pro Trp Lys Pro His Thr Leu
 145 150 155 160
 Leu Ser Pro Ser Val Leu Ile Pro Val Leu Leu Thr Val Ser Pro Ser
 165 170 175
 Trp Leu Phe Leu Glu Ser Leu Ser Phe Pro His Phe His Phe Leu Pro
 180 185 190
 Leu Tyr Cys His Leu Trp Pro Gly Phe Ala Leu Leu Val Gln His Pro
 195 200 205
 Gln Leu Gln His Leu Cys Leu Ser Ala Pro Ser Thr Arg Gln Lys Leu
 210 215 220
 Thr Leu Glu Asn Ile Arg His Ser Glu Ser Arg Val Leu Gly Ser Asp
 225 230 235 240
 Gly

<210> 5026

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

4531

<400> 5026

Ile Arg Gln Cys Val Lys His Trp His Thr Asn Ala Ala Lys Gly Ala
 1 5 10 15

Glu Gly Arg Gln Trp Gly Gly Ala Gly Thr Gln Gln Gly Ala Leu Pro
 20 25 30

Arg Asp Thr Leu Val Ile Phe Ser Thr Glu Xaa His Pro Xaa Ala Phe
 35 40 45

Leu Gln His Leu
 50

<210> 5027

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5027

Gly Gly Ser Glu Asp Gln Leu Glu Asp Pro Ala Leu Ser Gly Lys Ala
 1 5 10 15

Trp Glu Cys Glu Met Gly Arg Arg Gly Trp Asp Leu Gly Gly Trp Gly
 20 25 30

Gln Ala Leu Ser Pro Ser Leu Leu Ala Phe Gln Ser Leu Gly Arg Asn
 35 40 45

Leu Ser Xaa Leu Pro Pro Leu Ser Leu Ala His Arg His Pro Ala Cys
 50 55 60

Ile Ser Gln Glu Glu Val Glu Gly Thr Ser Leu Phe Pro Arg Asn Pro
 65 70 75 80

Leu Tyr Pro His Pro Val Leu Cys Ser Ser Pro Arg Leu Leu Gly Leu
 85 90 95

Arg Leu Leu Thr Ser Arg Arg Leu Arg Leu Val Cys Val Cys Leu Phe
 100 105 110

Ala His Leu Trp Leu Ile Pro Arg Glu Pro Gly His Leu Leu Pro Asp
 115 120 125

Ala His Pro Cys Gln Ser Phe Leu His Ser Pro Ser Gly Arg Trp Asp

4532

130 135 140
 Val Arg Gln Pro Thr Leu Glu Asn Pro Glu Asn Arg Glu Gln Gly Phe
 145 150 155 160
 Ala Leu His Asn Ser Thr Pro Gln Ile Leu Ser Pro Gly His Arg Arg
 165 170 175
 Pro Thr Gly Gln Asp Pro Lys Ile Trp Gly Lys Glu Val Leu Arg Thr
 180 185 190
 Leu Arg Tyr Pro
 195

<210> 5028

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5028

Met Phe Leu Asp Gly Gly Leu Pro Ser Ser Lys Leu Leu Pro Ile Cys
 1 5 10 15
 Thr Ser Val Leu Gly Gln Gly Lys Xaa Lys Ala Arg Ser Cys Lys Ser
 20 25 30
 His Ser Ser Gly Ser Gln Phe His Pro Gln Phe Lys Glu Leu Ser Arg
 35 40 45
 Gln Arg Gln Arg Leu Tyr Ser Thr His Val Gln Leu Lys Ala Gly Glu
 50 55 60
 Ala Lys Pro Gly Gln Arg Lys Gly Lys Gly Cys Val
 65 70 75

<210> 5029

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4533

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5029

Pro Glu Ile Ala Pro Asn Gly Gln Ser Leu Val Lys Gln Leu His Glu
 1 5 10 15

Arg Gln Leu Asp Leu Pro Tyr Leu Pro Leu Lys Arg Pro Lys Trp Thr
 20 25 30

Asn Xaa Ser Ser Gln Leu Leu Gly Tyr Phe Thr Leu Ala Leu Tyr Thr
 35 40 45

Ser Ala Pro Ser Lys Leu Lys Gly Asp Leu Asn Tyr Leu Arg Leu Glu
 50 55 60

Trp Gly Pro Asp Phe Gln Gln His Glu Ala Gly Leu Ile Gly Ala Asp
 65 70 75 80

Glu Val Pro Ile Leu Thr Xaa Ser Ser Ala Glu Leu Ala Gln Gln Gln
 85 90 95

Ile Ala Met Leu Asn Gly Cys Thr Trp Leu Pro Val Ser Trp Ala Arg
 100 105 110

Lys Lys Gly Gly Leu His Thr Val Val Asp Ser Thr Thr Leu Ser Arg
 115 120 125

Pro Leu
 130

<210> 5030

<211> 132

<212> PRT

<213> Homo sapiens

<400> 5030

Leu Val His Pro Pro Arg Asn Phe Leu Asp Ala Val Arg Ala Arg Trp
 1 5 10 15

Cys Tyr Leu Glu Leu Lys Lys Leu His Ala Ser Val Lys Leu Leu Thr
 20 25 30

Met Ala Lys Asn Lys Leu Arg Gly Pro Lys Ser Arg Asn Val Phe His

4534

35 40 45
 Ile Ala Ser Gln Lys Asn Phe Lys Ala Lys Asn Lys Ala Lys Pro Val
 50 55 60
 Thr Thr Asn Leu Lys Lys Ile Asn Ile Met Asn Glu Glu Lys Val Asn
 65 70 75 80
 Arg Val Asn Lys Ala Phe Val Asn Val Gln Lys Glu Leu Ala His Phe
 85 90 95
 Ala Lys Ser Ile Ser Leu Glu Pro Leu Gln Lys Glu Leu Ile Pro Gln
 100 105 110
 Gln Arg His Glu Ser Lys Pro Val Asn Val Asp Glu Ala Thr Arg Leu
 115 120 125
 Met Ala Leu Leu
 130

<210> 5031
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 5031
 Arg Glu Cys Val Cys Thr Phe Ser Leu Tyr Lys Gly Gln Gly Val Gly
 1 5 10 15
 Gln Ile His His Arg Leu Ile Tyr Ile Phe Cys Cys Asp Phe Phe Gln
 20 25 30
 Leu Tyr Asn Lys Cys Gln Leu Ile Val His Gly Thr Ile Tyr Phe Ser
 35 40 45
 Thr Gln Phe Ile Val Leu Ser Arg Glu Arg Phe Ile Tyr Phe His Tyr
 50 55 60
 Leu Ala Leu Ser
 65

<210> 5032
 <211> 142
 <212> PRT
 <213> Homo sapiens
 <220>

4535

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5032

Pro Thr Arg Pro Ala Ser Xaa Gly Cys Gly Leu Pro Leu Ser Leu Leu
 1 5 10 15

Arg Ala Val Thr Pro Val Pro Ala Ala Ile Arg Pro Gly Ala Pro Asp
 20 25 30

Glu Ser Met Arg Gly Arg Ala Arg Gly Val Val Phe Pro Arg Thr Pro
 35 40 45

Gly Gly Leu Pro Arg Pro Val Leu Cys Thr Ser Ser Pro Thr Lys Gly
 50 55 60

Glu Thr Glu Ala Pro Arg Gly Val Gly Arg Ala Gly Trp Thr Ser Gly
 65 70 75 80

Pro Ala Ala Gly Ala Val Val Arg Pro Leu Cys Arg Gly Gly Pro Leu
 85 90 95

Gly Phe Arg Val Ser Ser Gly Lys Arg Leu Ala Gly Leu Val Gly Cys
 100 105 110

Ala Ala Ile Leu Glu Thr Asp Asp Ser Ser Pro Xaa Asp Gly Phe Ala
 115 120 125

Gly Ser Ala Pro Ala Ser Ala Pro Ile Phe Pro Ala Ala Pro
 130 135 140

<210> 5033

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4536

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5033

Arg	Val	Met	Ser	Ala	Val	Leu	Leu	Leu	Ala	Leu	Leu	Gly	Phe	Ile	Leu
1				5					10					15	

Pro	Leu	Pro	Gly	Val	Gln	Ala	Leu	Leu	Cys	Gln	Phe	Gly	Thr	Val	Gln
			20					25					30		

His	Val	Trp	Lys	Val	Ser	Asp	Leu	Pro	Arg	Gln	Trp	Thr	Pro	Lys	Asn
		35					40					45			

Thr	Ser	Cys	Asp	Ser	Gly	Leu	Gly	Cys	Gln	Asp	Thr	Leu	Met	Leu	Ile
	50					55					60				

Glu	Ser	Gly	Pro	Gln	Val	Ser	Leu	Val	Leu	Ser	Lys	Gly	Cys	Thr	Glu
65					70					75					80

Ala	Lys	Asp	Gln	Glu	Pro	Arg	Val	Thr	Glu	His	Arg	Met	Gly	Pro	Gly
			85						90					95	

Leu	Ser	Leu	Ile	Ser	Tyr	Thr	Phe	Val	Cys	Arg	Gln	Glu	Asp	Phe	Cys
		100						105					110		

Asn	Asn	Leu	Val	Asn	Ser	Leu	Pro	Leu	Trp	Ala	Pro	Gln	Pro	Pro	Ala
		115					120					125			

Asp	Pro	Gly	Ser	Leu	Arg	Cys	Pro	Val	Cys	Leu	Ser	Met	Glu	Gly	Cys
	130					135					140				

Leu	Glu	Gly	Thr	Thr	Glu	Glu	Ile	Cys	Pro	Lys	Gly	Thr	Thr	His	Cys
145					150					155					160

Tyr	Asp	Gly	Leu	Leu	Arg	Leu	Arg	Gly	Gly	Gly	Ile	Phe	Ser	Asn	Leu
			165					170						175	

Arg	Val	Gln	Gly	Cys	Met	Pro	Gln	Pro	Gly	Cys	Asn	Leu	Leu	Asn	Gly
			180					185					190		

Thr	Gln	Glu	Ile	Gly	Pro	Val	Gly	Met	Thr	Glu	Asn	Cys	Asn	Arg	Lys
		195					200					205			

Asp	Phe	Leu	Thr	Cys	His	Arg	Gly	Thr	Thr	Ile	Met	Thr	His	Gly	Asn
		210					215				220				

4537

Leu Ala Gln Glu Pro Thr Asp Trp Thr Thr Ser Asn Tyr Arg Asp Val
 225 230 235 240

Arg Xaa Gly Ala Gly Val Ser Xaa Xaa Ala Ala Ala Pro Arg Cys
 245 250 255

<210> 5034

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5034

His Glu Gly Arg Arg Lys Lys Trp Met Leu Glu Ser Cys Xaa Met Ser
 1 5 10 15

Leu Trp Ile Ala Gln Lys Tyr Gln Leu Trp Leu Xaa Pro His Leu Ala
 20 25 30

Phe Val Ser Met Lys Lys Pro Gly Thr Ile Ser Thr Thr Ile Ser Asp
 35 40 45

His His Gln Pro Gln Ile Leu Gly Asn Leu Leu Glu Phe Phe Leu Asn
 50 55 60

Val Leu Asn Ser Cys Trp Val Pro Gly Arg Phe Gln Arg Lys
 65 70 75

<210> 5035

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

4538

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5035
Phe Gly Ala Ser Ser Leu Ser Ser Cys Arg Pro Ile Thr Ile Val Pro
1 5 10 15
Xaa Gly Lys Lys Trp Ser Pro Ala Pro Ser Pro Val Ala Leu Xaa Xaa
20 25 30
Thr Gly Asn Pro Phe Gly
35

<210> 5036
<211> 43
<212> PRT
<213> Homo sapiens

<400> 5036
Ser Arg Pro Phe Glu Glu Ile Tyr Glu Trp Asp Ile Lys Gln Phe Ser
1 5 10 15
Val Leu Gln Val Phe Phe Phe Phe Ser Lys Leu Phe Ala Val Ser Asn
20 25 30
Cys Asn Gln Tyr Leu Leu Leu Ser Ile Cys Leu
35 40

<210> 5037
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5037
Ala Gly Phe Ser Val Ile Ala Thr Phe Ala Tyr Phe Phe Pro Tyr Phe

4539

1 5 10 15
 Pro Cys Leu Leu Met Leu Asn Ser Met Asn Leu Leu Ser Asp Ala Val
 20 25 30
 Leu Asp Cys Pro Cys Cys Ile Ser Ile Ile Ser Leu Phe Ser Phe Ser
 35 40 45
 Leu Tyr Tyr Tyr Asn Cys Ser Phe Tyr Met Lys Ala Arg Lys Leu Xaa
 50 55 60
 Leu Glu Glu His Leu Ser Ala Thr Cys Gln Phe Cys Val Ser Val Leu
 65 70 75 80
 Tyr Val Cys Val Asn Phe Pro Leu Lys
 85

 <210> 5038
 <211> 176
 <212> PRT
 <213> Homo sapiens

 <400> 5038
 Gly Pro Arg Gln Gly Asp His Leu Arg Ser Gly Val Ser Thr Lys Asn
 1 5 10 15
 Thr Lys Ile Arg Gln Val Trp Trp Trp Ala Pro Leu Arg Arg Leu Arg
 20 25 30
 Gln Glu Asn His Leu Asn Pro Gly Gly Arg Gly Cys Ser Glu Pro Asp
 35 40 45
 His Ala Ala Ala Leu Gln Pro Gly Arg Ser Pro Cys Val Leu Leu Gly
 50 55 60
 Ala Gly Ala Val Thr Tyr Pro Leu Ser Phe Ser Leu Ala Ile Ser Val
 65 70 75 80
 Val Ser Tyr Glu Ala Glu Ile Gly Lys Gly Tyr Met Gln Val Ser Gln
 85 90 95
 Trp Thr Trp Pro Met Leu Gln Ala Pro Ser Ser Gln Val Gln Gln Cys
 100 105 110
 Tyr His Leu Leu Leu Leu Gly Gly Gln Thr Arg His Pro His His Glu
 115 120 125
 Gly Ala Ala Gly Thr Met Asn Tyr Val Asn Asn Pro Ser Leu Tyr Tyr
 130 135 140

4540

Arg Lys Gly Cys Ser His Met Arg Ile Gln Ser Thr Gln Ala Pro Trp
 145 150 155 160

Pro Cys Ser Pro Leu Gln Pro Gln Gly Ser Gly Ser Pro Ile Trp Arg
 165 170 175

<210> 5039

<211> 274

<212> PRT

<213> Homo sapiens

<400> 5039

Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp
 1 5 10 15

Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro
 20 25 30

Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg
 35 40 45

Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser
 50 55 60

Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg
 65 70 75 80

Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu
 85 90 95

Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys
 100 105 110

Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His
 115 120 125

Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr
 130 135 140

Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala
 145 150 155 160

Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys
 165 170 175

4541

Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu
 180 185 190

Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp
 195 200 205

Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val
 210 215 220

Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala
 225 230 235 240

Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys
 245 250 255

Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly
 260 265 270

Val Asp

<210> 5040

<211> 23

<212> PRT

<213> Homo sapiens

<400> 5040

Thr Leu Lys Ile Glu Val Pro His Asp Pro Ala Ile Pro Leu Leu Asp
 1 5 10 15

Ile Tyr Pro Arg Asn Lys Lys
 20

<210> 5041

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5041

Ala Arg Phe Ile Lys Leu Ile Phe Phe Ile Leu Val Val Lys Ser Ser
 1 5 10 15

4542

Leu Ile Ala Phe Cys Gln Leu Asp Phe Xaa Val Cys Val Ile Phe Lys
 20 25 30

Gly Arg Met Thr Gly Gln Ile Ser Asn Lys Lys Cys Ile Glu Leu Glu
 35 40 45

Asn Ile Val Val Pro Ser Tyr Pro Trp Asp Ile Arg Ser Lys Thr Pro
 50 55 60

Ser Glu Arg Leu Lys Pro Trp Ile Val
 65 70

<210> 5042

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5042

Ala Asp Val Glu Ser Pro Glu Leu Ile Ser Asn Phe Leu Pro Phe Pro
 1 5 10 15

Phe Pro Ser Pro Ser Leu Pro Phe Pro Phe Ser Pro Leu Pro Ser Pro
 20 25 30

Xaa Phe Pro Ser Pro
 35

<210> 5043

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5043

Glu Gly Arg Leu Arg Gln Gly Arg Val Arg Glu His Cys Arg Gly Glu
 1 5 10 15

Glu Gly Ile His Phe Leu Val Ile Ser Phe His Ser Lys Arg Val Ser
 20 25 30

Gln Asn Arg Trp Pro Gly Thr Gly Glu Leu Gly Arg Ala Arg Arg Glu
 35 40 45

4543

Ile Ser Ala Cys Val Arg Lys Asp Gly Arg Ala Gly Leu Glu Pro Leu
 50 55 60

Leu Asp Tyr Leu Gln Ser Phe Cys Ser Thr Leu Lys Val Asn Gln Cys
 65 70 75 80

Leu Gln Thr Phe Pro Asp Thr
 85

<210> 5044

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5044

Ile Asn Thr Ile Ile Phe Ile Trp Lys Phe Tyr Arg Arg Ala Ile Ser
 1 5 10 15

Val Tyr Val Ile Thr Pro Asp Phe Leu Lys Leu Leu Leu Val Asp Asn
 20 25 30

Arg Gln Val Leu Ser Ser Val Pro Leu Arg Val Val Pro Gly Leu Pro
 35 40 45

Ala Val Glu Leu Thr Gly Gly Ile Leu Gln Phe Cys Asp Pro Arg Met
 50 55 60

Arg Pro Arg Arg Ser Val Arg Ser Ala Gly Gly Gly Ala Trp Glu Ala
 65 70 75 80

Val Phe Val Met Asn Ser Gly Val Phe Cys Pro Leu Lys Cys Ile Phe
 85 90 95

Val His Pro Ile Arg Leu Lys Glu Arg Lys Ser Ile Ser Asn Glu Cys
 100 105 110

Lys Leu Phe Leu Arg Lys Lys Cys Ile Arg Leu Leu
 115 120

<210> 5045

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (121)

4544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5045

Asp Gln Gly Gly Glu Trp Lys His Gly Arg Ile Ile Leu Pro Ser Tyr
1 5 10 15

Asp Met Glu Tyr Gln Ile Val Phe Glu Gly Val Ile Gly Lys Gly Arg
20 25 30

Ser Gly Glu Ile Ala Ile Asp Asp Ile Arg Ile Ser Thr Asp Val Pro
35 40 45

Leu Glu Asn Cys Met Glu Pro Ile Ser Ala Phe Ala Gly Gly Thr Leu
50 55 60

Leu Pro Gly Thr Glu Pro Thr Val Asp Thr Val Pro Met Gln Pro Ile
65 70 75 80

Pro Ala Tyr Trp Tyr Tyr Val Met Ala Ala Gly Gly Ala Val Leu Val
85 90 95

Leu Val Ser Val Ala Leu Ala Leu Val Leu His Tyr His Arg Phe Arg
100 105 110

Tyr Ala Ala Lys Lys Thr Asp His Xaa Ile Thr Tyr Lys Thr Phe His
115 120 125

Tyr Thr Asn Gly Ala Pro Leu Ala Val Glu Xaa
130 135

<210> 5046

<211> 201

<212> PRT

<213> Homo sapiens

<400> 5046

Ala Leu Ile Met Ser Phe Ile Phe Glu Trp Ile Tyr Asn Gly Phe Ser
1 5 10 15

Ser Val Leu Gln Phe Leu Gly Leu Tyr Lys Lys Ser Gly Lys Leu Val
20 25 30

Phe Leu Gly Leu Asp Asn Ala Gly Lys Thr Thr Leu Leu His Met Leu
35 40 45

4545

Lys Asp Asp Arg Leu Gly Gln His Val Pro Thr Leu His Pro Thr Ser
 50 55 60
 Glu Glu Leu Thr Ile Ala Gly Met Thr Phe Thr Thr Phe Asp Leu Gly
 65 70 75 80
 Gly His Glu Gln Ala Arg Arg Val Trp Lys Asn Tyr Leu Pro Ala Ile
 85 90 95
 Asn Gly Ile Val Phe Leu Val Asp Cys Ala Asp His Ser Arg Leu Val
 100 105 110
 Glu Ser Lys Val Glu Leu Asn Ala Leu Met Thr Asp Glu Thr Ile Ser
 115 120 125
 Asn Val Pro Ile Leu Ile Leu Gly Asn Lys Ile Asp Arg Thr Asp Ala
 130 135 140
 Ile Ser Glu Glu Lys Leu Arg Glu Ile Phe Gly Leu Tyr Gly Gln Thr
 145 150 155 160
 Thr Gly Lys Gly Asn Val Thr Leu Lys Glu Leu Asn Ala Arg Pro Met
 165 170 175
 Glu Val Phe Met Cys Ser Val Leu Lys Arg Gln Gly Tyr Gly Glu Gly
 180 185 190
 Phe Arg Trp Leu Ser Gln Tyr Ile Asp
 195 200

<210> 5047

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5047

Lys Glu Gly Ile Leu Phe Val Thr Tyr Pro Asp Gly Arg Pro Thr Gly
 1 5 10 15
 Asp Ala Phe Val Leu Phe Ala Cys Glu Glu Tyr Ala Gln Asn Ala Leu
 20 25 30
 Arg Lys His Lys Asp Leu Leu Gly Lys Arg Tyr Ile Glu Leu Phe Arg

35					40					45					
Ser	Thr	Ala	Ala	Glu	Val	Gln	Gln	Val	Leu	Asn	Arg	Phe	Ser	Ser	Ala
50						55				60					
Pro	Leu	Ile	Pro	Leu	Pro	Thr	Pro	Pro	Ile	Ile	Pro	Val	Leu	Pro	Gln
65				70						75				80	
Gln	Phe	Val	Pro	Pro	Thr	Asn	Val	Arg	Asp	Cys	Ile	Arg	Leu	Arg	Gly
				85				90						95	
Leu	Pro	Tyr	Ala	Ala	Thr	Ile	Glu	Asp	Ile	Leu	Asp	Phe	Leu	Gly	Glu
		100						105				110			
Phe	Ala	Thr	Asp	Ile	Arg	Thr	His	Gly	Val	His	Met	Val	Leu	Asn	His
		115				120						125			
Gln	Gly	Arg	Pro	Ser	Gly	Asp	Ala	Phe	Ile	Gln	Met	Lys	Ser	Ala	Asp
130						135				140					
Arg	Ala	Phe	Met	Ala	Ala	Gln	Lys	Cys	His	Lys	Lys	Asn	Met	Lys	Asp
145				150						155				160	
Arg	Tyr	Val	Glu	Val	Phe	Gln	Cys	Ser	Ala	Glu	Glu	Met	Asn	Phe	Val
				165				170						175	
Leu	Met	Gly	Gly	Thr	Leu	Asn	Arg	Asn	Gly	Leu	Ser	Pro	Pro	Pro	Cys
		180						185				190			
Leu	Ser	Pro	Pro	Ser	Tyr	Thr	Phe	Pro	Ala	Pro	Ala	Ala	Xaa	Ile	Pro
		195				200						205			
Thr	Glu	Ala	Ala	Ile	Tyr	Gln	Pro	Ser	Val	Ile	Leu	Asn	Pro	Arg	Ala
210						215				220					
Leu	Gln	Pro	Ser	Thr	Ala	Tyr	Tyr	Pro	Ala	Gly	Thr	Gln	Leu	Phe	Met
225				230						235				240	
Asn	Tyr	Thr	Ala	Tyr	Tyr	Pro	Ser	Pro	Pro	Gly	Ser	Pro	Asn	Ser	Leu
				245				250						255	
Gly	Tyr	Phe	Pro	Thr	Ala	Ala	Asn	Leu	Ser	Gly	Val	Pro	Pro	Gln	Pro
		260						265				270			
Gly	Thr	Val	Val	Arg	Met	Gln	Gly	Leu	Ala	Tyr	Asn	Thr	Gly	Val	Lys
		275				280						285			
Glu	Ile	Leu	Asn	Phe	Phe	Gln	Gly	Tyr	Gln	Cys	Leu	Lys	Asp	Val	Trp
290						295				300					

4547

<210> 5048

<211> 254

<212> PRT

<213> Homo sapiens

<400> 5048

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Trp Cys Ile Phe Asp Tyr Met Ala Val Tyr Arg Met Cys Cys Pro Tyr
 1              5              10              15

Thr Arg Arg Ala Ser Lys Ser Ser Arg Pro Met Tyr Gly Ala Val Thr
      20              25              30

Ser Phe Leu His Ser Leu Ile Ile Gln Asn Glu Pro Arg Phe Ala Met
      35              40              45

Phe Gly Pro Gly Leu Glu Glu Leu Asn Thr Ser Leu Val Leu Ser Leu
      50              55              60

Met Ser Ser Glu Glu Leu Cys Pro Thr Ala Gly Leu Pro Gln Arg Gln
      65              70              75              80

Ile Asp Gly Ile Gly Ser Gly Val Asn Phe Gln Leu Asn Asn Gln His
      85              90              95

Lys Phe Asn Ile Leu Ile Leu Tyr Ser Thr Thr Arg Lys Glu Arg Asp
      100              105              110

Arg Ala Arg Glu Glu His Thr Ser Ala Val Asn Lys Met Phe Ser Arg
      115              120              125

His Asn Glu Gly Asp Asp Gln Gln Gly Ser Arg Tyr Ser Val Ile Pro
      130              135              140

Gln Ile Gln Lys Val Cys Glu Val Val Asp Gly Phe Ile Tyr Val Ala
      145              150              155              160

Asn Ala Glu Ala His Lys Arg His Glu Trp Gln Asp Glu Phe Ser His
      165              170              175

Ile Met Ala Met Thr Asp Pro Ala Phe Gly Ser Ser Gly Arg Pro Leu
      180              185              190

Leu Val Leu Ser Cys Ile Ser Gln Gly Asp Val Lys Arg Met Pro Cys
      195              200              205

Phe Tyr Leu Ala His Glu Leu His Leu Asn Leu Leu Asn His Pro Trp
      210              215              220

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4548

Leu Val Gln Asp Thr Glu Ala Glu Thr Leu Thr Gly Phe Leu Asn Gly
 225 230 235 240

Ile Glu Trp Ile Leu Glu Glu Val Glu Ser Lys Arg Ala Arg
 245 250

<210> 5049

<211> 45

<212> PRT

<213> Homo sapiens

<400> 5049

Phe Leu Ile Val His Lys Pro Leu Thr Lys Glu Ser Glu Ile Ser Pro
 1 5 10 15

Ser Val Lys Arg Lys Gln Ala Met Lys Cys Tyr Ile Cys Arg Leu Lys
 20 25 30

Ser Lys Leu Val Cys Phe Leu Lys Asn Leu Asn Gln Asp
 35 40 45

<210> 5050

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5050

Ser Cys Val Ser Ala Val Asp Thr Asn Ile Lys Cys Leu Val His Leu
 1 5 10 15

Lys Ser Leu Ser Leu Pro Tyr Met Gly Glu Thr Gln Ser Pro Ser Leu
 20 25 30

Cys Trp Lys Tyr His Gln Thr Asp Cys Lys Cys Ala Ala Val Ala Asp
 35 40 45

Ile Leu Val Trp Trp Cys Ala Ala Ile Ser Ala Leu His Leu Pro Xaa
 50 55 60

Trp Leu Pro Tyr Ser Cys Val Pro Ile Phe Ala Ser Met Leu Gly Val
 65 70 75 80

4549

Pro His Leu Leu His Phe Pro Ala Cys Asn Gln Glu Leu Thr
85 90

```
<210> 5051
<211> 200
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5051
Val Gly Pro Gly Ala Ala Trp Arg Arg Pro His Ser Gly Ile Met Ala
  1           5           10          15
```

Gln Val Ala Met Ser Thr Leu Pro Val Glu Asp Glu Glu Ser Ser Glu
20 25 30

Ser Arg Met Val Val Thr Phe Leu Met Ser Ala Leu Glu Ser Met Cys
35 40 45

Lys Glu Leu Ala Lys Ser Lys Ala Glu Val Ala Cys Ile Ala Val Tyr
50 55 60

Glu Thr Asp Val Phe Val Val Gly Thr Glu Arg Gly Arg Ala Phe Val
65 70 75 80

Asn Thr Arg Lys Asp Phe Gln Lys Asp Phe Val Lys Tyr Cys Val Glu
85 90 95

Glu Glu Glu Lys Ala Ala Glu Met His Lys Met Lys Ser Thr Thr Gln
100 105 110

Ala Asn Arg Met Ser Val Asp Ala Val Glu Ile Glu Thr Leu Arg Lys
115 120 125

Thr Val Glu Asp Tyr Phe Cys Phe Cys Tyr Gly Lys Ala Leu Gly Lys
130 135 140

Ser Thr Val Val Pro Val Pro Tyr Glu Lys Met Leu Arg Asp Gln Ser
145 150 155 160

4550

Ala Val Val Val Gln Gly Leu Pro Glu Gly Val Ala Phe Lys His Pro
 165 170 175

Glu Asn Tyr Asp Leu Ala Thr Leu Lys Trp Ile Leu Glu Asn Lys Ala
 180 185 190

Gly Ile Ser Phe Ile Xaa Lys Xaa
 195 200

<210> 5052

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5052

Arg Glu Ile Glu Arg Lys Arg Gln Arg Glu Glu Glu Arg Arg Lys Trp
 1 5 10 15

Lys Glu Glu Glu Lys Arg Lys Arg Lys Asp Ile Glu Lys Leu Lys Lys
 20 25 30

Ile Asp Arg Ile Pro Glu Arg Asp Lys Leu Lys Asp Glu Pro Lys Ile
 35 40 45

Lys Leu Leu Lys Lys Pro Glu Lys Gly Asp Glu Lys Glu Leu Asp Lys
 50 55 60

Arg Glu Lys Ala Lys Lys Leu Asp Lys Glu Asn Leu Ser Asp Glu Arg

65				70				75				80				
Ala	Ser	Gly	Gln	Ser	Cys	Thr	Leu	Pro	Lys	Arg	Ser	Asp	Ser	Glu	Leu	
				85					90					95		
Lys	Asp	Glu	Lys	Pro	Lys	Arg	Pro	Glu	Asp	Glu	Ser	Gly	Arg	Asp	Xaa	
				100					105					110		
Arg	Glu	Arg	Glu	Arg	Glu	Tyr	Glu	Arg	Asp	Gln	Glu	Arg	Ile	Leu	Arg	
				115					120					125		
Glu	Arg	Glu	Arg	Leu	Lys	Arg	Gln	Glu	Glu	Glu	Arg	Arg	Arg	Xaa	Arg	
				130					135					140		
Ser	Ala	Met	Arg	Lys	Arg	Arg	Leu	Leu	Arg	Xaa	Lys	Lys	Lys	Lys	Xaa	
145				150				155				160				
Lys	Lys	Arg	Lys	Thr	His	Phe	Gly	Ile	Lys	Glu	Arg	Arg	Leu	Lys	Val	
				165					170					175		
Gln	Asn	Gln														

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Thr Arg His Arg Arg Arg Phe Met Leu
65 70

4552

<210> 5054

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5054

Pro	Cys	Ala	Ile	Ile	Phe	Phe	His	His	Phe	Ser	Gly	Xaa	Leu	Glu	Gly
1				5					10					15	

Gly	Gly	Asp	Pro	Gly	Asp	Leu	Ser	Thr	Leu	Phe	Ser	Gln	Lys	Ala	Gly
			20					25					30		

Trp	Phe	Phe	Ser	Leu	Phe	Ser	Cys	Asp	Ser	Tyr	Leu	Glu	Ser	Gly	Leu
			35					40				45			

Asn	Val	Asn	Ile	Leu	Val	Leu	Val	Val	Gln	Leu	Arg
	50					55					60

<210> 5055

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

4553

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5055

Gly	Arg	Val	Glu	Lys	Ser	Leu	Met	Thr	Leu	Lys	Ile	Ser	Ala	Trp	Leu
1				5					10					15	

Leu	Thr	Lys	Ile	Gly	Asn	Xaa	Xaa	Xaa	Gly	Xaa	Arg	Phe	Gly	Lys	Arg
			20					25					30		

Arg	Glu	Arg	Ile	Met	Lys	Phe	Asp	Phe	Tyr	Ile	Glu	Met	Lys	Gly	Pro
		35					40					45			

Phe	Gln	Ile	Trp	Lys	Ser	Phe	Gly	Leu	Asn	Asn	Xaa	Xaa	Ile	Phe	Asp
	50					55					60				

Leu	Glu	Asn	Xaa	Gly	Xaa	Lys	Pro
65						70	

<210> 5056

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5056

Leu	Lys	Cys	Phe	Glu	Thr	Val	Val	Asp	Gly	Tyr	Glu	Glu	Leu	Leu	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4554

1 5 10 15
 Leu Leu Pro Cys Arg Thr Pro Glu Ser Lys Met Ile His Gln Gln Leu
 20 25 30
 Tyr Trp Ser His Pro Arg Lys Val Ser Gln Gly Ser Cys Tyr Xaa Val
 35 40 45
 Cys

<210> 5057

<211> 104

<212> PRT

<213> Homo sapiens

<400> 5057

Arg Ile Gln Glu Tyr Phe Leu Leu Gly Trp Ala Leu Asn Lys Ala Lys
 1 5 10 15
 Asn Cys Arg Asn Gln Ser Arg Lys Ser Pro Ala His Leu Trp Pro Leu
 20 25 30
 Pro Ser Ser Arg Pro Pro Pro Cys Arg Lys Asn Leu Ala Phe Gly Leu
 35 40 45
 Ser Leu Ser His Arg Gly His Leu Leu Phe Pro Ser Asp Ile Gln Pro
 50 55 60
 Tyr Arg Arg Ser Leu Asp Ser Asp Pro Ser Val Gln Ala Gly Trp Lys
 65 70 75 80
 Gly Pro Ser Thr Leu Pro Gly Arg Ser Glu Thr Asn Cys Phe Arg Glu
 85 90 95
 Ser Asp Gly Leu Pro Lys Thr Cys
 100

<210> 5058

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

4555

<400> 5058

```

Pro Thr Arg Pro Arg Thr Arg Gly Leu Lys Met Pro Leu Thr Phe Ile
 1             5             10             15

Leu Leu Pro Ser Gly Lys Gly Asn Leu Val Phe Ser Ile Thr Ser Thr
          20             25             30

Lys Ile Leu Leu Xaa Ser Thr His Tyr Pro Ile Pro Lys Pro Phe Ser
      35             40             45

His Phe Lys Thr Phe Val Thr Glu Val Pro Asn Pro Ser Gln Phe His
      50             55             60

Asn Leu His
      65

```

<210> 5059

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5059

```

Thr Lys Leu His Phe Gln Gly Gln Gly Leu Gly Asn Xaa Leu Ile Val
 1             5             10             15

Lys Ser Cys Asn Thr Ser Val Gln Val Asn Ile Ser Gly Pro Cys Phe
          20             25             30

Pro Ser Gln Cys Met His Glu Leu Phe Phe Met His His Trp Gly Ala
      35             40             45

Gln Ser Trp Xaa Asn Leu Pro Val Gly Ile Leu Gly Xaa Thr Trp Ala
      50             55             60

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4556

Cys Leu
65

<210> 5060
<211> 47
<212> PRT
<213> Homo sapiens

<400> 5060
Lys Cys Lys Cys Ala Gly Arg Lys Gly Thr Asp Asp Ser Val Thr Leu
1 5 10 15
Gln Leu Gln Lys Leu Arg Val Gly Asp Tyr Leu Asp Ile Ala Ile Thr
20 25 30
Pro Leu Asn Gln Val Pro Pro Pro Ser Gly His Met Arg Ser Tyr
35 40 45

<210> 5061
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5061
Phe Gly Thr Ser Gly Thr Ser Cys Cys Leu Gly Trp Thr Trp Phe Cys
1 5 10 15
Leu Leu Arg Pro Leu Phe Ala Leu Ser Phe His Phe Leu Gln Arg Ala
20 25 30
Xaa Arg Met Ala His Lys Gln Ile Tyr Tyr Ser Asp Lys Tyr Phe Asp
35 40 45
Glu His Tyr Glu Tyr Arg His Val Met Leu Pro Arg Glu Leu Ser Lys
50 55 60
Gln Val Pro Lys Thr His Leu Met Ser Glu Glu Glu Trp Arg Arg Leu
65 70 75 80
Gly Val Gln Gln Ser Leu Gly Trp Val His Tyr Met Ile His Glu Pro
85 90 95

4557

Glu Pro His Ile Leu Leu Phe Arg Arg Pro Leu Pro Lys Asp Gln Gln
 100 105 110

Lys

<210> 5062

<211> 287

<212> PRT

<213> Homo sapiens

<400> 5062

Ser Gly Ser Ala Phe Leu Arg Cys Pro Pro Pro Pro Val Arg Arg Ser
 1 5 10 15

Glu Lys Pro Asn Trp Asp Tyr His Ala Glu Ile Gln Ala Phe Gly His
 20 25 30

Arg Leu Gln Glu Asn Phe Ser Leu Asp Leu Leu Lys Thr Ala Phe Val
 35 40 45

Asn Ser Cys Tyr Ile Lys Ser Glu Glu Ala Lys Arg Gln Gln Leu Gly
 50 55 60

Ile Glu Lys Glu Ala Val Leu Leu Asn Leu Lys Ser Asn Gln Glu Leu
 65 70 75 80

Ser Glu Gln Gly Thr Ser Phe Ser Gln Thr Cys Leu Thr Gln Phe Leu
 85 90 95

Glu Asp Glu Tyr Pro Asp Met Pro Thr Glu Gly Ile Lys Asn Leu Val
 100 105 110

Asp Phe Leu Thr Gly Glu Glu Val Val Cys His Val Ala Arg Asn Leu
 115 120 125

Ala Val Glu Gln Leu Thr Leu Ser Glu Glu Phe Pro Val Pro Pro Ala
 130 135 140

Val Leu Gln Gln Thr Phe Phe Ala Val Ile Gly Ala Leu Leu Gln Ser
 145 150 155 160

Ser Gly Pro Glu Arg Thr Ala Leu Phe Ile Arg Asp Phe Leu Ile Thr
 165 170 175

Gln Met Thr Gly Lys Glu Leu Phe Glu Met Trp Lys Ile Ile Asn Pro
 180 185 190

4558

Met Gly Leu Leu Val Glu Glu Leu Lys Lys Arg Asn Val Ser Ala Pro
 195 200 205

Glu Ser Arg Leu Thr Arg Gln Ser Gly Gly Thr Thr Ala Leu Pro Leu
 210 215 220

Tyr Phe Val Gly Leu Tyr Cys Asp Lys Lys Leu Ile Ala Glu Gly Pro
 225 230 235 240

Gly Glu Thr Val Leu Val Ala Glu Glu Glu Ala Ala Arg Val Ala Leu
 245 250 255

Arg Lys Leu Tyr Gly Phe Thr Glu Asn Arg Arg Pro Trp Asn Tyr Ser
 260 265 270

Lys Pro Lys Glu Thr Leu Arg Ala Glu Lys Ser Ile Thr Ala Ser
 275 280 285

<210> 5063

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5063

Ile Leu Thr Glu Phe Leu Glu Met Ile Val Asn Cys Leu Gln Ile Ile
 1 5 10 15

Glu Lys Cys Ile Tyr Leu Cys Val Cys Val Cys Gln Lys Cys Asn Cys
 20 25 30

Phe Ile Ile Phe Phe Pro Tyr Leu Tyr Ile Leu Phe Asn Thr Trp Phe
 35 40 45

Ile Ser Thr Val His Cys Phe Leu Cys Pro Lys Leu Thr
 50 55 60

<210> 5064

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4559

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5064

Glu	Asp	Pro	Phe	Thr	Ile	Leu	Thr	Lys	Glu	Ile	Phe	Phe	Phe	Thr	Val
1				5					10					15	

Glu	Leu	Val	Cys	Glu	Asn	Lys	Glu	Leu	Cys	Ser	Ser	Pro	Arg	Trp	Arg
			20					25					30		

Asn	Ala	Ile	Gln	Lys	Ser	Asn	Phe	Ser	Lys	Val	Thr	Ser	Phe	Phe	Met
			35				40					45			

Ser	Cys	His	His	Phe	Lys	Gly	Leu	Ala	Pro	Leu	Pro	His	Val	Tyr	Thr
	50					55					60				

Gln	Gly	Asn	Cys	Arg	Pro	Ile	Ser	Cys	Leu	Gly	Leu	Thr	Leu	Met	Pro
65					70					75					80

Phe	Ala	Ser	Ser	Phe	Pro	Glu	Val	Lys	Val	Pro	Val	Met	Tyr	Ser	His
				85					90					95	

Arg	Asn	Ile	Phe	Gln	Leu	Phe	Met	Ser	Phe	Thr	Thr	Lys	Lys	Lys	Xaa
			100					105					110		

Gln	Ser	Gly	Met	Gly	Val	Gln	Leu	Leu	Xaa	Xaa	Phe	Leu	Val	Arg	Ile
		115					120					125			

Phe	Tyr
	130

<210> 5065

<211> 342

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5065

Ile	Arg	His	Glu	Gly	Leu	Gly	Arg	Met	Lys	Pro	Asn	Thr	Leu	Val	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4560

1	5	10	15
Gly Phe Xaa Lys Asp Trp Leu Gln Ala Asp Met Arg Asp Val Asp Met	20	25	30
Tyr Ile Asn Leu Phe His Asp Ala Phe Asp Ile Gln Tyr Gly Val Val	35	40	45
Val Ile Arg Leu Lys Glu Gly Leu Asp Ile Ser His Leu Gln Gly Gln	50	55	60
Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser Pro Gly Thr Lys Asp Val	65	70	75
Val Val Ser Val Glu Tyr Ser Lys Lys Ser Asp Leu Asp Thr Ser Lys	85	90	95
Pro Leu Ser Glu Lys Pro Ile Thr His Lys Val Glu Glu Glu Asp Gly	100	105	110
Lys Thr Ala Thr Gln Pro Leu Leu Lys Lys Glu Ser Lys Gly Pro Ile	115	120	125
Val Pro Leu Asn Val Ala Asp Gln Lys Leu Leu Glu Ala Ser Thr Gln	130	135	140
Phe Gln Lys Lys Gln Gly Lys Asn Thr Ile Asp Val Trp Trp Leu Phe	145	150	155
Asp Asp Gly Gly Leu Thr Leu Leu Ile Pro Tyr Leu Leu Thr Thr Lys	165	170	175
Lys Lys Trp Lys Asp Cys Lys Ile Arg Val Phe Ile Gly Gly Lys Ile	180	185	190
Asn Arg Ile Asp His Asp Arg Arg Ala Met Ala Thr Leu Leu Ser Lys	195	200	205
Phe Arg Ile Asp Phe Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr	210	215	220
Lys Pro Lys Lys Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro	225	230	235
Tyr Arg Leu His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys Met	245	250	255
Lys Glu Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu Leu Tyr	260	265	270
Lys Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu Leu Lys Glu			

4561

275 280 285
 His Ser Ser Thr Ala Asn Ile Ile Val Met Ser Leu Pro Val Ala Arg
 290 295 300
 Lys Gly Ala Val Ser Ser Ala Leu Tyr Met Ala Trp Leu Glu Ala Leu
 305 310 315 320
 Ser Lys Asp Leu Pro Pro Ile Leu Leu Val Arg Gly Asn His Gln Ser
 325 330 335
 Val Leu Thr Phe Tyr Ser
 340

<210> 5066

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5066

Gln His Arg Asp Lys Met Gln Gln Ser Lys Asn Gln Val Val Ser Ser
 1 5 10 15
 Thr Asn Gly Glu Leu Asn Thr Asp Asp Pro Thr Ala Gly Arg Ser Asn
 20 25 30
 Ala Pro Ile Thr Ala Pro Thr Glu Val Glu Val Met Asp Glu Thr Lys
 35 40 45
 Cys Cys Cys Phe Phe Lys Arg Arg Lys Arg Lys Thr Ile Gln Arg His
 50 55 60
 Lys
 65

<210> 5067

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4562

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5067

Ile	Arg	His	Glu	Glu	Leu	Asp	Lys	Leu	Leu	Ser	Ser	Phe	Lys	Ser	Leu
1				5				10					15		

Leu	Glu	Glu	Lys	Glu	Gln	Ala	Glu	Ile	Gln	Ile	Lys	Glu	Glu	Ser	Lys
		20					25					30			

Thr	Ala	Val	Glu	Met	Leu	Gln	Asn	Gln	Leu	Lys	Glu	Leu	Asn	Glu	Ala
	35					40						45			

Val	Ala	Ala	Xaa	Cys	Gly	Asp	Gln	Glu	Ile	Met	Lys	Ala	Thr	Xaa	Xaa
	50					55					60				

Ser	Leu	Asp	Pro	Pro	Ile	Glu	Glu	Arg	Ala	Ser	Ser	Glu	Lys
65					70					75			

<210> 5068

<211> 192

<212> PRT

<213> Homo sapiens

<400> 5068

Glu	Cys	Arg	Leu	Glu	Gly	Ser	Met	Glu	Val	His	Gly	Lys	Pro	Lys	Ala
1				5				10					15		

Ser	Pro	Ser	Cys	Ser	Ser	Pro	Thr	Arg	Asp	Ser	Ser	Gly	Val	Pro	Val
		20						25				30			

Ser	Lys	Glu	Leu	Leu	Thr	Ala	Gly	Ser	Asp	Gly	Arg	Gly	Gly	Ile	Trp
	35					40					45				

Asp	Arg	Leu	Leu	Ile	Asn	Ser	Gln	Pro	Lys	Ser	Arg	Lys	Thr	Ser	Thr
	50				55						60				

Leu	Gln	Thr	Val	Arg	Ile	Glu	Arg	Ser	Pro	Leu	Leu	Asp	Gln	Val	Gln
65					70					75					80

Thr	Phe	Leu	Pro	Gln	Met	Ala	Arg	Ala	Asn	Glu	Lys	Leu	Arg	Lys	Glu
				85					90					95	

Met	Ala	Ala	Ala	Pro	Pro	Gly	Arg	Phe	Asn	Ile	Glu	Asn	Ile	Asp	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4563

100	105	110
Pro His Ser Lys Val Ile Gln Met Asp Val Ala Leu Phe Glu Met Asn		
115	120	125
Gln Ser Asp Ser Lys Glu Val Asp Ser Ser Glu Glu Ser Ser Gln Asp		
130	135	140
Ser Ser Glu Asn Ser Ser Glu Ser Glu Asp Glu Asp Asp Ser Ile Pro		
145	150	155
Ser Glu Val Thr Ile Asp Asn Ile Lys Leu Pro Asn Ser Glu Gly Gly		
165	170	175
Lys Gly Lys Ile Glu Val Leu Asp Ser Pro Ala Ser Lys Lys Lys Lys		
180	185	190

<210> 5069

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5069

Leu Thr Ser Val Asn Ser Ser Pro Thr Arg Leu Met Thr Thr Phe Ile
1 5 10 15

Leu His Glu Xaa Ile Val Phe Val Ser Thr Val Phe Tyr Tyr Phe Arg
20 25 30

Ala Ser Leu Arg His Thr Ile
35

<210> 5070

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4564

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5070

Gly	Ser	Gly	Ala	Glu	Ala	Xaa	Asp	Lys	Lys	Pro	Arg	Asp	Leu	Phe	Gly
1				5				10					15		

Pro	Pro	Gly	Pro	Pro	Xaa	Ala	Glu	Val	Thr	Ala	Glu	Thr	Leu	Leu	His
		20					25						30		

Glu	Phe	Gln	Glu	Leu	Leu	Lys	Glu	Ala	Thr	Glu	Arg	Arg	Phe	Ser	Gly
		35					40					45			

Leu	Leu	Asp	Pro	Leu	Leu	Pro	Gln	Gly	Ala	Gly	Leu	Arg	Leu	Val	Gly
		50				55					60				

Glu	Ala	Phe	His	Cys	Arg	Leu	Gln	Gly	Pro	Arg	Arg	Val	Asp	Lys	Arg
65					70					75				80	

Thr	Leu	Val	Glu	Leu	His	Gly	Phe	Gln	Ala	Pro	Ala	Ala	Gln	Gly	Ala
				85					90					95	

Phe	Leu	Arg	Gly	Ser	Gly	Leu	Ser	Leu	Ala	Ser	Gly	Arg	Phe	Thr	Ala
			100					105					110		

Pro	Val	Ser	Gly	Ile	Phe	Gln	Phe	Xaa	Ala	Xaa	Leu	Xaa	Val	Gly	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4565

115 120 125
 Gly Trp Gly Ser Ala Val Cys Cys Asp Gly Ala Gly Ala Xaa Leu Ser
 130 135 140

 Gly Gly
 145

 <210> 5071
 <211> 126
 <212> PRT
 <213> Homo sapiens

 <400> 5071
 Glu Arg Ser His Leu Gln Pro Gly Ala Val Gly Ile Thr Glu Ser Pro
 1 5 10 15

 Ile Leu Gly Leu Gly Ser Ala Met Thr Thr Glu Ile Gly Trp Trp Lys
 20 25 30

 Leu Thr Phe Leu Arg Lys Lys Lys Ser Thr Pro Lys Val Leu Tyr Glu
 35 40 45

 Ile Pro Asp Thr Tyr Ala Gln Thr Glu Gly Asp Ala Glu Pro Pro Arg
 50 55 60

 Pro Asp Ala Gly Gly Pro Asn Ser Asp Phe Asn Thr Arg Leu Glu Lys
 65 70 75 80

 Ile Val Asp Lys Ser Thr Lys Gly Lys His Val Lys Val Ser Asn Ser
 85 90 95

 Gly Arg Phe Lys Glu Lys Lys Lys Val Arg Ala Thr Leu Ala Glu Asn
 100 105 110

 Pro Asn Leu Phe Asp Asp His Glu Glu Gly Arg Ser Ser Lys
 115 120 125

<210> 5072
 <211> 205
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

4566

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5072

Tyr	Cys	Ser	Leu	Lys	Thr	Pro	Leu	Ser	Glu	Asn	Asp	Met	Pro	Ser	Gln
1				5					10					15	

Cys	Asn	Ser	Glu	Leu	Val	Arg	Gly	Pro	Leu	Ala	Ala	Pro	Gly	Gly	Gly
			20					25					30		

Glu	Arg	Tyr	Ser	Arg	Ser	Ala	Gly	Met	Tyr	Met	Gln	Ser	Gly	Ser	Asp
		35					40					45			

Phe	Asn	Cys	Gly	Val	Xaa	Arg	Gly	Cys	Gly	Leu	Ala	Pro	Ser	Leu	Ser
	50					55					60				

Lys	Arg	Asp	Glu	Gly	Ser	Ser	Pro	Ser	Leu	Ala	Leu	Asn	Thr	Tyr	Pro
65					70					75					80

Ser	Tyr	Leu	Ser	Gln	Leu	Asp	Ser	Trp	Gly	Asp	Pro	Lys	Ala	Ala	Tyr
				85					90						95

Arg	Leu	Glu	Gln	Pro	Val	Gly	Arg	Pro	Leu	Ser	Ser	Cys	Ser	Tyr	Pro
			100					105					110		

Pro	Ser	Val	Lys	Glu	Glu	Asn	Val	Cys	Cys	Met	Tyr	Ser	Ala	Glu	Lys
		115					120					125			

Arg	Ala	Lys	Ser	Gly	Pro	Glu	Ala	Ala	Leu	Tyr	Ser	His	Pro	Leu	Pro
	130					135					140				

Glu	Ser	Cys	Leu	Gly	Glu	His	Glu	Val	Pro	Val	Pro	Ser	Tyr	Tyr	Arg
145					150					155					160

Ala	Ser	Arg	Ala	Thr	Pro	Arg	Trp	Thr	Arg	Arg	Pro	Thr	Val	Leu	Gly
				165					170					175	

Pro	Thr	Thr	Ser	Lys	Pro	Leu	Ser	Ser	Ser	Gly	Pro	Val	Xaa	Thr	Arg
			180					185					190		

Ala	Pro	Asn	Ile	Trp	Asn	Arg	Leu	Ser	Trp	Gly	Ala	Lys
		195					200					205

<210> 5073

<211> 84

<212> PRT

4567

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5073

Val	Ser	Ser	Asn	Pro	Asp	Lys	Ser	Arg	Cys	Leu	Gly	Val	Arg	His	Ile
1				5					10					15	

Gln	Asp	Ile	Gly	Leu	Trp	Leu	Gln	Asn	Arg	Asn	Leu	Gly	Gly	Leu	Gln
			20					25					30		

Leu	Val	Leu	Gly	Arg	Leu	Leu	Leu	Leu	Arg	Leu	Leu	Leu	Ile	Ile	Leu
		35					40					45			

Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Asn	Arg	Gln	Xaa	Asn	Gln	Xaa
		50					55				60				

Val	His	Xaa	Val	His	His	Gln	Ser	Pro	Gly	Pro	Cys	Gly	Xaa	Glu	Val
65					70					75				80	

Leu Xaa Thr Asn

<210> 5074

<211> 61

<212> PRT

4568

<213> Homo sapiens

<400> 5074

Gly	Arg	Ala	Lys	Glu	Arg	Lys	Val	Asn	Lys	Lys	Lys	Gln	Gln	Gln	Gln
1				5					10					15	
Gln	Pro	Pro	Gln	Pro	Pro	Met	Ala	His	Asp	Ile	Thr	Ala	Thr	Pro	Ala
			20					25					30		
Gly	Pro	Ser	Leu	Gly	Gly	Leu	Cys	Pro	Ser	Asn	Thr	Ser	Leu	Leu	Ala
			35				40					45			
Thr	Ser	Ser	Pro	Met	Pro	Val	Lys	Glu	Glu	Phe	Leu	Pro			
	50					55					60				

<210> 5075

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5075

Phe	His	His	Val	Ala	Gln	Ala	Gly	Leu	Asp	Leu	Pro	Thr	Ser	Ser	Asp
1				5					10					15	
Leu	Pro	Ala	Pro	Thr	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Leu	Ser	His
			20					25					30		
Arg	Ala	Arg	Pro	Val	Leu	Phe	Val	Phe	Val	Glu	Arg	Trp	Gly	Phe	Ala
		35					40					45			
Met	Leu	Pro	Arg	Leu	Ile	Ser	Asn	Ser							
	50					55									

<210> 5076

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

4569

<400> 5076

Glu Val Leu Pro Gly Pro Gly Ser Thr Arg Val Trp Pro Gly Pro Ser
 1 5 10 15
 Val Ser Pro Arg Pro Gln Gly Gly Ala Leu Ser Thr Gln Lys Gly Pro
 20 25 30
 Lys Ala Gly His Gly Gly Ala Glu Glu Phe Gly Arg Cys Lys Gln Pro
 35 40 45
 His Ala Arg Gly Gly Gly Asp Cys Phe Ser Xaa Arg Pro His Ala Ser
 50 55 60
 Thr Phe His Xaa Ala Cys Pro Leu Leu Met Cys Ser Ser Gln Cys Leu
 65 70 75 80
 Cys Glu Pro Thr Ser Ala Gln Ser Tyr Pro Ser Ser Ala Cys Gly Asp
 85 90 95
 Pro Ala Pro Ala Ala Leu Leu Leu Pro Arg Pro Gln Thr Ala Trp Trp
 100 105 110
 Arg Val Leu His Leu Gly Gln Ala Gly Val His Pro Ala Lys Asp Lys
 115 120 125
 Ala Ala Ser Thr Cys Pro Arg Ile Gln Met Val His Trp Pro Arg Glu
 130 135 140
 Glu Ser Asp Gln Lys Trp Ser Pro Leu Cys Gly Glu Ala Pro Thr Pro
 145 150 155 160
 Pro Arg Glu Thr Val Pro Arg Cys Gly Ser Pro Pro Ser Leu Val Gly
 165 170 175
 His Ser Trp Pro Gly Pro Pro Ile Leu Arg Ser Phe Pro Gly Cys Gly
 180 185 190
 Phe Asp Leu Arg Ser Gly Ser Gly Leu Ala Ser Gly Val Trp Pro Gly
 195 200 205
 Pro Ala Cys Cys Ser Leu Leu Gly Gly Pro
 210 215

<210> 5077

<211> 59

<212> PRT

<213> Homo sapiens

4570

<400> 5077

Gly Ser Ser Thr Ile Lys Ala Tyr Leu Ile Asn Asn Tyr Phe Cys Lys
1 5 10 15

Gln Val Gly Leu Thr Tyr Ser Ser Ser Phe Cys Leu Asp Met Asn Leu
20 25 30

Arg Ser Ser Cys Leu Lys Thr Phe Thr Leu Leu Phe Ser Asp Thr Phe
35 40 45

Pro Ser Tyr Phe Phe Phe Phe Phe Gly Cys Cys
50 55

<210> 5078

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4571

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5078

Phe	Ile	Leu	Glu	Leu	Gln	Met	Gln	Ser	Ile	Xaa	Glu	Lys	Lys	Met	Lys
1				5					10					15	

Xaa	Xaa	Arg	Asn	Ile	Ala	Xaa	His	Xaa	Xaa	Asn	Xaa	Pro	Ser	Leu	Ile
			20					25					30		

Thr	Phe	Leu	Cys	Lys	Asn	Cys	Ser	Val	Leu	Ala	Cys	Ser	Gly	Glu	Asp
		35					40					45			

Ile	His	Val	Ile	Glu	Lys	Met	His	His	Val	Asn	Met	Thr	Pro	Glu	Phe
	50					55					60				

Lys	Glu	Leu	Tyr	Ile	Val	Arg	Glu	Asn	Lys	Xaa	Leu	Gln	Lys	Lys	Cys
65					70					75					80

Ala	Asp	Tyr	Gln	Ile	Asn	Gly	Glu	Ile	Ile	Cys	Lys	Cys	Gly	Gln	Ala
				85					90					95	

Trp	Gly	Thr	Met	Met	Val	His	Lys	Gly	Leu	Asp	Leu	Pro	Cys	Leu	Lys
			100					105					110		

Ile	Arg	Asn	Phe	Val	Val	Val	Phe	Lys	Asn	Asn	Ser	Thr	Lys	Lys	Gln
		115					120					125			

Tyr	Lys	Lys	Trp	Val	Glu	Leu	Pro	Ile	Thr	Phe	Pro	Asn	Leu	Asp	Tyr
	130					135					140				

Ser	Glu	Cys	Cys	Leu	Phe	Ser	Asp	Glu	Asp
145					150				

<210> 5079

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

4572

<400> 5079

Xaa	Ile	Glu	Ile	Asn	Pro	His	Val	Lys	Gly	Thr	Lys	Ala	Gly	Ala	Pro	1	5	10	15
Pro	Arg	Cys	Gly	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	20	25	30	
Phe	Gly	Thr	Ser	Ser	Ser	Thr	Pro	Ala	Arg	Pro	Ser	Ser	His	His	Ser	35	40	45	
Ala	Cys	Phe	Leu	Gly	Pro	Glu	Ile	Met	Pro	Leu	Gly	Leu	Leu	Trp	Leu	50	55	60	
Gly	Leu	Ala	Leu	Leu	Gly	Ala	Leu	His	Ala	Gln	Ala	Gln	Asp	Ser	Thr	65	70	75	80
Ser	Asp	Leu	Ile	Pro	Ala	Pro	Pro	Leu	Ser	Lys	Val	Pro	Leu	Gln	Gln	85	90	95	
Asn	Phe	Gln	Asp	Asn	Gln	Phe	Gln	Gly	Lys	Trp	Tyr	Val	Val	Gly	Leu	100	105	110	
Ala	Gly	Asn	Ala	Ile	Leu	Arg	Glu	Asp	Lys	Asp	Pro	Gln	Lys	Met	Tyr	115	120	125	
Ala	Thr	Ile	Tyr	Glu	Leu	Lys	Glu	Asp	Lys	Ser	Tyr	Asn	Val	Thr	Ser	130	135	140	
Val	Leu	Phe	Arg	Lys	Lys	Lys	Cys	Asp	Tyr	Trp	Ile	Arg	Thr	Phe	Val	145	150	155	160
Pro	Gly	Cys	Gln	Pro	Gly	Glu	Phe	Thr	Leu	Gly	Asn	Ile	Lys	Ser	Tyr	165	170	175	
Pro	Gly	Leu	Thr	Ser	Tyr	Leu	Val	Arg	Val	Val	Ser	Thr	Asn	Tyr	Asn	180	185	190	
Gln	His	Ala	Met	Val	Phe	Phe	Lys	Lys	Val	Ser	Gln	Asn	Arg	Glu	Tyr	195	200	205	
Phe	Lys	Ile	Thr	Leu	Tyr	Gly	Arg	Thr	Lys	Glu	Leu	Thr	Ser	Glu	Leu	210	215	220	
Lys	Glu	Asn	Phe	Ile	Arg	Phe	Ser	Lys	Ser	Leu	Gly	Leu	Pro	Glu	Asn	225	230	235	240
His	Ile	Val	Phe	Pro	Val	Pro	Ile	Asp	Gln	Cys	Ile	Asp	Gly	245	250				

4573

<210> 5080

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5080

Gln Ala Ala Asp Lys Tyr Val Asp Asp Met Gly Gln Leu Arg Ala Pro
 1 5 10 15

Phe Ala Cys His Leu Pro Pro Leu Leu Trp Met Val Ser Pro Leu Ala
 20 25 30

Arg Leu Pro Gly Thr Asp His Val Ala Ile Lys Ala Asn Val Asn Lys
 35 40 45

Tyr His Glu Thr Val Val Cys Ile Val Phe
 50 55

<210> 5081

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5081

Ser Leu Ala Phe Gln Gly Ala Ser Ile Ala Leu His His Asp Leu Ala
 1 5 10 15

Leu Val Leu Leu Arg Asp Leu Pro Thr Ala Gly Ser Val Pro Ser Ser
 20 25 30

Val Ile Val Leu His Ser Asp Thr Ile Ile Ala Gly Leu Asn Ile Ala
 35 40 45

Ile Asn Met Ser Val Pro Gln Ala Glu Arg Gly Phe Leu Ile Leu Arg
 50 55 60

Glu Gln Lys Val Phe Trp Leu Lys Arg Leu Lys Thr
 65 70 75

<210> 5082

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5082

Lys Tyr Leu Arg Ala Ile Ile Val Gly His Leu Arg Ser Ser Val Asn

4574

1 5 10 15
Ser Glu Leu Ala Asn Leu Ser Leu Cys Val Ser Thr Leu Ile Phe Phe
 20 25 30
Phe Ser Trp Val Ser Glu Ala Ser Lys Phe Phe Gln Lys Trp Ser Ile
 35 40 45
Thr Lys Leu Ser Glu Thr Gln Tyr Leu Met Tyr Cys Thr Arg Leu Pro
 50 55 60
Asn Ser
65

<210> 5083

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (344)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (350)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (356)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (359)

<223> Xaa equals any of the naturally occurring L-amino acids

4575

<400> 5083

Xaa	Leu	His	Arg	Gly	Asp	Asp	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly
1				5					10					15	
Leu	Gln	Glu	Phe	Gly	Arg	Gly	Xaa	Ala	Gly	Val	Gly	Gly	Arg	Pro	Arg
			20					25					30		
Arg	Arg	Arg	Arg	Lys	Gly	Ala	Ala	Ser	Arg	Ala	Arg	Leu	Pro	Phe	Ser
			35				40					45			
Leu	Ser	Ile	Met	Asp	Pro	Ser	Leu	Leu	Arg	Glu	Arg	Glu	Leu	Phe	Lys
	50					55				60					
Lys	Arg	Ala	Leu	Ser	Thr	Pro	Val	Val	Glu	Lys	Arg	Ser	Ala	Ser	Ser
65					70					75					80
Glu	Ser	Ser	Ser	Ser	Ser	Ser	Lys	Lys	Lys	Lys	Thr	Lys	Val	Glu	His
				85					90					95	
Gly	Gly	Ser	Ser	Gly	Ser	Lys	Gln	Asn	Ser	Asp	His	Ser	Asn	Gly	Ser
			100					105					110		
Phe	Asn	Leu	Lys	Ala	Leu	Ser	Gly	Ser	Ser	Gly	Tyr	Lys	Phe	Gly	Val
		115					120					125			
Leu	Ala	Lys	Ile	Val	Asn	Tyr	Met	Lys	Thr	Arg	His	Gln	Arg	Gly	Asp
	130					135					140				
Thr	His	Pro	Leu	Thr	Leu	Asp	Glu	Ile	Leu	Asp	Glu	Thr	Gln	His	Leu
145					150					155					160
Asp	Ile	Gly	Leu	Lys	Gln	Lys	Gln	Trp	Leu	Met	Thr	Glu	Ala	Leu	Val
				165					170					175	
Asn	Asn	Pro	Lys	Ile	Glu	Val	Ile	Asp	Gly	Lys	Tyr	Ala	Phe	Lys	Pro
			180					185					190		
Lys	Tyr	Asn	Val	Arg	Asp	Lys	Lys	Ala	Leu	Leu	Arg	Leu	Leu	Asp	Gln
	195						200					205			
His	Asp	Gln	Arg	Gly	Leu	Gly	Gly	Ile	Leu	Leu	Glu	Asp	Ile	Glu	Glu
	210					215					220				
Ala	Leu	Pro	Asn	Ser	Gln	Lys	Ala	Val	Lys	Ala	Leu	Gly	Asp	Gln	Ile
225					230					235					240
Leu	Phe	Val	Asn	Arg	Pro	Asp	Lys	Lys	Lys	Ile	Leu	Phe	Phe	Asn	Asp
				245					250					255	
Lys	Ser	Cys	Gln	Phe	Ser	Val	Asp	Glu	Glu	Phe	Gln	Lys	Leu	Trp	Arg
			260					265					270		

4576

Ser Val Thr Val Asp Ser Met Asp Glu Glu Lys Ile Glu Glu Tyr Leu
 275 280 285

Lys Arg Gln Gly Ile Ser Ser Met Gln Glu Ser Gly Pro Lys Lys Val
 290 295 300

Ala Pro Ile Gln Arg Arg Lys Lys Pro Ala Ser Gln Lys Lys Arg Arg
 305 310 315 320

Phe Lys Thr His Asn Glu His Leu Ala Gly Val Leu Lys Asp Tyr Ser
 325 330 335

Asp Ile Thr Ser Ser Asn Arg Xaa Gln Phe Cys Leu Gly Xaa Glu Leu
 340 345 350

Gln Ile His Xaa Gln Glu Xaa Ser Cys
 355 360

<210> 5084

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5084

Ile Arg Asn Thr Cys Ile Trp Trp Lys Pro Trp Ile Ser Thr Ser Ser
 1 5 10 15

Asn Tyr Ser Ser Leu Tyr Ser Leu Leu Cys Lys Leu Val Tyr Asn Leu
 20 25 30

Gln Ala Asp Leu Lys Ile Phe Leu Tyr Leu Ile Ala Ala Ala Phe Ile
 35 40 45

Leu Gly Ser Ala Val Thr Phe Asn Tyr Leu Asn Leu Leu Pro Glu Gly
 50 55 60

Met Ser Leu Thr Phe
 65

<210> 5085

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4577

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5085

Leu	Trp	Phe	Arg	Trp	Phe	Gln	Phe	Ser	Asp	Ile	Ser	Ser	Ser	Arg	Lys
1				5					10					15	

Ala	Asp	Ser	Leu	Cys	His	Ser	His	Leu	Ala	Thr	Ala	Ala	Gly	Gly	Ser
			20					25					30		

Gly	Asp	Lys	Asp	Leu	Ser	Ile	Gly	Pro	Ala	His	Gly	Gly	Asn	Thr	Lys
		35					40					45			

Glu	Pro	Gly	Ala	Asp	Ala	Phe	Phe	Arg	Ala	Val	Thr	Thr	Pro	Glu	His
	50					55					60				

Ala	Thr	Leu	Glu	Thr	Ile	Leu	Arg	His	Asn	Gln	Leu	Ile	Leu	Glu	Ala
65					70					75					80

Ile	Gln	Gln	Lys	Ile	Glu	Cys	Lys	Leu	Phe	Thr	Ser	Xaa	Xaa	Glu	His
				85					90					95	

Leu	Xaa	Lys	Leu
			100

<210> 5086

<211> 21

<212> PRT

<213> Homo sapiens

<400> 5086

Ile	Pro	Ala	Thr	Arg	Glu	Ala	Glu	Ala	Gly	Glu	Ser	Leu	Glu	Pro	Gly
1				5					10					15	

Arg	Trp	Arg	Leu	Gln
				20

4578

<210> 5087

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5087

Asp Leu Glu Glu Ile Ile Leu Tyr Tyr Phe Leu Ser Val Phe Phe Asn
 1 5 10 15

Ala Phe Thr Ser Gly Val Gly Met Leu Asp Phe Ile Phe Leu Lys Thr
 20 25 30

Asn Lys Ile Trp Lys Ala Leu Pro Leu Asn Val Thr
 35 40

<210> 5088

<211> 239

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5088

Ser Leu Glu Asn Asp Lys Met Arg Leu Glu Lys Asp Leu Ser Phe Lys
 1 5 10 15

Asp Thr Gln Leu Lys Glu Tyr Glu Glu Leu Leu Ala Ser Val Arg Ala
 20 25 30

Asn Asn His Gln Gln Gln Gln Gly Leu Gln Asp Ser Ser Ser Lys Cys
 35 40 45

Gln Ala Leu Glu Glu Asn Asn Leu Ser Leu Arg His Thr Leu Ser Asp
 50 55 60

Met Glu Tyr Arg Leu Lys Glu Leu Glu Tyr Xaa Lys Arg Asn Leu Glu
 65 70 75 80

Gln Glu Asn Gln Asn Leu Arg Met Gln Val Ser Glu Thr Cys Thr Gly
 85 90 95

Pro Met Leu Gln Ala Lys Met Asp Glu Ile Gly Asn His Tyr Thr Glu
 100 105 110

Met Val Lys Asn Leu Arg Met Glu Lys Asp Arg Glu Ile Cys Arg Leu
 115 120 125

4579

Arg Ser Gln Leu Asn Gln Tyr His Lys Asp Val Ser Lys Arg Glu Gly
 130 135 140

Ser Cys Ser Asp Phe Gln Phe Lys Leu His Glu Leu Thr Ser Leu Leu
 145 150 155 160

Glu Glu Lys Asp Ser Leu Ile Lys Arg Gln Ser Glu Glu Leu Ser Lys
 165 170 175

Leu Arg Gln Glu Ile Tyr Ser Ser His Asn Gln Pro Ser Thr Gly Gly
 180 185 190

Arg Thr Thr Ile Thr Thr Lys Lys Tyr Arg Thr Gln Tyr Pro Ile Leu
 195 200 205

Gly Leu Leu Tyr Asp Asp Tyr Glu Tyr Ile Pro Pro Gly Ser Glu Thr
 210 215 220

Gln Thr Ile Val Ile Glu Lys Thr Glu Asp Lys Tyr Thr Cys Pro
 225 230 235

<210> 5089

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5089

Pro Thr Arg Arg Pro Arg Val Xaa Gly Ala Glu Phe Arg Lys Ile Pro
 1 5 10 15

Thr Ser Met Lys Ala Lys Arg Ser His Gln Ala Ile Ile Met Ser Thr
 20 25 30

Ser Leu Arg Val Ser Pro Ser Ile His Gly Tyr His Phe Asp Thr Ala
 35 40 45

Ser Arg Lys Lys Ala Val Gly Asn Ile Phe Glu Asn Thr Asp Gln Glu
 50 55 60

Ser Leu Glu Arg Leu Phe Arg Asn Ser Gly Asp Lys Lys Ala Glu Glu
 65 70 75 80

Arg Ala Lys Ile Ile Phe Ala Ile Asp Gln Asp Val Glu Glu Lys Thr

4580

85	90	95
Arg Ala Leu Met Ala Leu Lys Lys Arg Thr Lys Asp Lys Leu Phe Gln		
100	105	110
Phe Leu Lys Leu Arg Lys Tyr Ser Ile Lys Val His		
115	120	
 <210> 5090		
<211> 216		
<212> PRT		
<213> Homo sapiens		
 <400> 5090		
Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg		
1	5	10 15
Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val		
20	25	30
Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg		
35	40	45
Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile		
50	55	60
Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg		
65	70	75 80
Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr		
85	90	95
Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala		
100	105	110
Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe		
115	120	125
Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser		
130	135	140
Asp Phe Leu Ile Lys Ser Ile Asn Leu Val Asn Cys Leu Gln Leu Leu		
145	150	155 160
Ser Ile Ser Asp Ser Tyr Gly Ser Thr Ser Leu Phe Asp His Ala Leu		
165	170	175
His Phe Val Gln His His Phe Ser Leu Leu Phe Lys Ser Ser Asp Phe		
180	185	190

4581

Leu Glu Met Asn Phe Gly Val Leu Gln Lys Cys Leu Glu Ser Asp Glu
 195 200 205

Leu Asn Val Pro Glu Glu Glu Lys
 210 215

<210> 5091

<211> 535

<212> PRT

<213> Homo sapiens

<400> 5091

Ser Cys Arg Ile Arg His Glu Arg Leu Thr Ser Ala Val Ser Leu Gln
 1 5 10 15

Leu Arg Ala Pro Gly Ala Ala Arg Pro Ala Ser Gly Leu Pro Asp Arg
 20 25 30

Leu Trp Pro Ala Pro Ser Pro Ser Pro Gly Ala His Arg Ala Ala Ala
 35 40 45

Gly Ala Glu Gln Pro Pro Ser Arg Pro Ser Ala Gly Pro Ala Arg Ser
 50 55 60

Gly Arg Met Asn Asp Phe Gly Ile Lys Asn Met Asp Gln Val Ala Pro
 65 70 75 80

Val Ala Asn Ser Tyr Arg Gly Thr Leu Lys Arg Gln Pro Ala Phe Asp
 85 90 95

Thr Phe Asp Gly Ser Leu Phe Ala Val Phe Pro Ser Leu Asn Glu Glu
 100 105 110

Gln Thr Leu Gln Glu Val Pro Thr Gly Leu Asp Ser Ile Ser His Asp
 115 120 125

Ser Ala Asn Cys Glu Leu Pro Leu Leu Thr Pro Cys Ser Lys Ala Val
 130 135 140

Met Ser Gln Ala Leu Lys Ala Thr Phe Ser Gly Phe Lys Lys Glu Gln
 145 150 155 160

Arg Arg Leu Gly Ile Pro Lys Asn Pro Trp Leu Trp Ser Glu Gln Gln
 165 170 175

Val Cys Gln Trp Leu Leu Trp Ala Thr Asn Glu Phe Ser Leu Val Asn
 180 185 190

4582

Val	Asn	Leu	Gln	Arg	Phe	Gly	Met	Asn	Gly	Gln	Met	Leu	Cys	Asn	Leu	195	200	205
Gly	Lys	Glu	Arg	Phe	Leu	Glu	Leu	Ala	Pro	Asp	Phe	Val	Gly	Asp	Ile	210	215	220
Leu	Trp	Glu	His	Leu	Glu	Gln	Met	Ile	Lys	Glu	Asn	Gln	Glu	Lys	Thr	225	230	235
Glu	Asp	Gln	Tyr	Glu	Glu	Asn	Ser	His	Leu	Thr	Ser	Val	Pro	His	Trp	245	250	255
Ile	Asn	Ser	Asn	Thr	Leu	Gly	Phe	Gly	Thr	Glu	Gln	Ala	Pro	Tyr	Gly	260	265	270
Met	Gln	Thr	Gln	Asn	Tyr	Pro	Lys	Gly	Gly	Leu	Leu	Asp	Ser	Met	Cys	275	280	285
Pro	Ala	Ser	Thr	Pro	Ser	Val	Leu	Ser	Ser	Glu	Gln	Glu	Phe	Gln	Met	290	295	300
Phe	Pro	Lys	Ser	Arg	Leu	Ser	Ser	Val	Ser	Val	Thr	Tyr	Cys	Ser	Val	305	310	315
Ser	Gln	Asp	Phe	Pro	Gly	Ser	Asn	Leu	Asn	Leu	Leu	Thr	Asn	Asn	Ser	325	330	335
Gly	Thr	Pro	Lys	Asp	His	Asp	Ser	Pro	Glu	Asn	Gly	Ala	Asp	Ser	Phe	340	345	350
Glu	Ser	Ser	Asp	Ser	Leu	Leu	Gln	Ser	Trp	Asn	Ser	Gln	Ser	Ser	Leu	355	360	365
Leu	Asp	Val	Gln	Arg	Val	Pro	Ser	Phe	Glu	Ser	Phe	Glu	Asp	Asp	Cys	370	375	380
Ser	Gln	Ser	Leu	Cys	Leu	Asn	Lys	Pro	Thr	Met	Ser	Phe	Lys	Asp	Tyr	385	390	395
Ile	Gln	Glu	Arg	Ser	Asp	Pro	Val	Glu	Gln	Gly	Lys	Pro	Val	Ile	Pro	405	410	415
Ala	Ala	Val	Leu	Ala	Gly	Phe	Thr	Gly	Ser	Gly	Pro	Ile	Gln	Leu	Trp	420	425	430
Gln	Phe	Leu	Leu	Glu	Leu	Leu	Ser	Asp	Lys	Ser	Cys	Gln	Ser	Phe	Ile	435	440	445
Ser	Trp	Thr	Gly	Asp	Gly	Trp	Glu	Phe	Lys	Leu	Ala	Asp	Pro	Asp	Glu	450	455	460

4583

Val Ala Arg Arg Trp Gly Lys Arg Lys Asn Lys Pro Lys Met Asn Tyr
 465 470 475 480

Glu Lys Leu Ser Arg Gly Leu Arg Tyr Tyr Tyr Asp Lys Asn Ile Ile
 485 490 495

His Lys Thr Ser Gly Lys Arg Tyr Val Tyr Arg Phe Val Cys Asp Leu
 500 505 510

Gln Asn Leu Leu Gly Phe Thr Pro Glu Glu Leu His Ala Ile Leu Gly
 515 520 525

Val Gln Pro Asp Thr Glu Asp
 530 535

<210> 5092

<211> 452

<212> PRT

<213> Homo sapiens

<400> 5092

Asp Pro Arg Val Arg Pro Arg Arg Pro Gln Ser Leu Ser Pro Val Leu
 1 5 10 15

Ser Leu Ser Pro Asp Ser Met Ser Phe Thr Thr Arg Ser Thr Phe Ser
 20 25 30

Thr Asn Tyr Arg Ser Leu Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala
 35 40 45

Arg Pro Val Ser Ser Ala Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser
 50 55 60

Gly Ser Arg Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met
 65 70 75 80

Gly Ser Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met
 85 90 95

Gly Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
 100 105 110

Leu Ala Ser Tyr Leu Asp Arg Val Arg Ser Leu Glu Thr Glu Asn Arg
 115 120 125

Arg Leu Glu Ser Lys Ile Arg Glu His Leu Glu Lys Lys Gly Pro Gln
 130 135 140

Val Arg Asp Trp Ser His Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala

4584

145		150		155		160
Gln Ile Phe Ala Asn Thr Val Asp Asn Ala Arg Ile Val Leu Gln Ile						
	165		170		175	
Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr						
	180		185		190	
Glu Leu Ala Met Arg Gln Ser Val Glu Asn Asp Ile His Gly Leu Arg						
	195		200		205	
Lys Val Ile Asp Asp Thr Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu						
	210		215		220	
Ile Glu Ala Leu Lys Glu Glu Leu Leu Phe Met Lys Lys Asn His Glu						
	225		230		235	240
Glu Glu Val Lys Gly Leu Gln Ala Gln Ile Ala Ser Ser Gly Leu Thr						
	245		250		255	
Val Glu Val Asp Ala Pro Lys Ser Gln Asp Leu Ala Lys Ile Met Ala						
	260		265		270	
Asp Ile Arg Ala Gln Tyr Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu						
	275		280		285	
Leu Asp Lys Tyr Trp Ser Gln Gln Ile Glu Glu Ser Thr Thr Val Val						
	290		295		300	
Thr Thr Gln Ser Ala Glu Val Gly Ala Ala Glu Thr Thr Leu Thr Glu						
	305		310		315	320
Leu Arg Arg Thr Val Gln Ser Leu Glu Ile Asp Leu Asp Ser Met Arg						
	325		330		335	
Asn Leu Lys Ala Ser Leu Glu Asn Ser Leu Arg Glu Val Glu Ala Arg						
	340		345		350	
Tyr Ala Leu Gln Met Glu Gln Leu Asn Gly Ile Leu Leu His Leu Glu						
	355		360		365	
Ser Glu Leu Ala Gln Thr Arg Ala Glu Gly Gln Arg Gln Ala Gln Glu						
	370		375		380	
Tyr Glu Ala Leu Leu Asn Ile Lys Val Lys Leu Glu Ala Glu Ile Ala						
	385		390		395	400
Thr Tyr Arg Arg Leu Leu Glu Asp Gly Glu Asp Phe Asn Leu Gly Asp						
	405		410		415	
Ala Leu Asp Ser Ser Asn Ser Met Gln Thr Ile Gln Lys Thr Thr Thr						

4585

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          420                      425                      430
Arg Arg Ile Val Asp Gly Lys Val Val Ser Glu Thr Asn Asp Thr Lys
          435                      440                      445

Val Leu Arg His
          450

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<210> 5093
<211> 110
<212> PRT
<213> Homo sapiens
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<400> 5093
Leu Ser Ile Phe Ser Ser Ser Pro Ile Met Val Asp Asn Asp Ser Ser
  1                      5                      10                      15
Gly Thr Ser Asp Lys Asp His Ser Glu Ile Leu Asp Gly Ile Ser Asn
      20                      25                      30
Ile Lys Leu Asn Ser Glu Glu Val Thr Gln Ser Gln Leu Asp Ser Cys
      35                      40                      45
Thr Ser His Asp Gly His Gln Gln Leu Ser Glu Val Ser Ser Lys Arg
      50                      55                      60
Glu Cys Pro Ala Ser Gly Gln Ser Glu Pro Arg Asn Gly Gly Thr Asn
      65                      70                      75                      80
Glu Glu Ser Asn Ser Ser Gly Asn Thr Asn Thr Asp Pro Pro Ala Glu
      85                      90                      95
Asp Ser Gln Lys Ser Ser Gly Ala Asn Gln Ala Lys Thr Asp
      100                      105                      110

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<210> 5094
<211> 66
<212> PRT
<213> Homo sapiens
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<400> 5094
Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Arg Ser Arg
  1                      5                      10                     15
Lys Ile Leu Thr His Lys Asn Phe Gly Leu Glu Ser Phe Pro Gly Val
      20                      25                     30
```


4586

Val Pro Ile Lys Thr Asp Leu Glu Arg Lys Pro Ala Gln His Gly Thr
 35 40 45

Cys Phe Leu Asn Ser Leu Glu Ser Val Trp Cys Met Ser Leu Leu Ile
 50 55 60

Tyr Ser
 65

<210> 5095
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 5095
 Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met
 1 5 10 15

Phe Thr Phe Asn Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala
 20 25 30

Leu Ala Ile Trp Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly
 35 40 45

Ser Glu Asp Val Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile
 50 55 60

Ala Val Gly Ala Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly
 65 70 75 80

Ala Ile Lys Glu Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu
 85 90 95

Leu Leu Ile Leu Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val
 100 105 110

Phe Lys Ser Lys Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn
 115 120 125

Thr Lys Leu Leu Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu
 130 135 140

Ala Ile Ile Val Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn
 145 150 155 160

Gly Ala Ala Asp Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys
 165 170 175

Ala Cys Leu Asp Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln

4587

180 185 190
 Val Tyr Lys Glu Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys
 195 200 205
 Asn Leu Ile Ile Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu
 210 215 220
 Ile Leu Gly Leu Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn
 225 230 235 240
 Lys

<210> 5096

<211> 81

<212> PRT

<213> Homo sapiens

<400> 5096

Gly Gly Phe Phe Ser Ile Ser Phe Lys Arg Cys Met Ser Glu Phe Pro
 1 5 10 15
 Leu His Thr Lys Asn Trp Ser Leu Glu Pro His Tyr Ser Leu Ser Gln
 20 25 30
 Val Leu Val Pro Tyr Thr Pro Glu Cys Gln Met Val Gly Ala Asp Trp
 35 40 45
 Lys Lys Glu Lys Ser Ser Ser Arg Cys Val Gly Ser His Pro Pro His
 50 55 60
 Ile Ala Ser Pro Ser Ser Glu Gln Trp Ala Trp Gly Arg Lys Leu Phe
 65 70 75 80
 Gln

<210> 5097

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5097

Arg Pro Gln Arg Leu Gly Arg Leu Gly Phe Pro Leu Pro Pro Arg Thr
 1 5 10 15

4588

Pro Lys Asp Thr Pro Asn Pro Arg Pro Ala Gly Pro Ala Leu Ala Arg
 20 25 30
 Pro Lys Tyr Tyr Leu Ala Gln Ala Ser Ala Arg Gly Thr Pro Lys Leu
 35 40 45
 Pro Met Tyr Pro Ala Pro Glu Gly Leu His Ser Gln Glu Val Pro Met
 50 55 60
 Tyr Pro Asn Thr Gly Arg His Pro Ala Pro Pro Ser Gln Thr Arg Lys
 65 70 75 80
 Lys Val Asn Leu Thr Thr Thr Tyr Ser Pro Lys Thr Thr Tyr Phe Val
 85 90 95
 Leu Ala Gly Leu Pro Ala Thr
 100

<210> 5098

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4589

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5098

Ile	Gly	Thr	Ser	Ser	Phe	Ala	Asn	His	Pro	Pro	Ala	Ala	Arg	Leu	Phe
1				5					10					15	

Pro	Ala	Asn	Lys	Glu	Arg	Glu	Glu	Ile	Gln	Thr	Leu	Lys	Gln	Gln	Xaa
		20					25						30		

Ala	Xaa	Leu	Arg	Glu	Asp	Leu	Lys	Xaa	Xaa	Glu	Xaa	Lys	Trp	Ser	Ser
	35					40						45			

Thr	His	Ser	Arg	Leu	Arg	Ser	Gln	Ile	Gln	Met	Leu	Val	Arg	Glu	Asn
	50					55					60				

Thr	Asp	Xaa	Arg	Glu	Glu	Ile	Lys	Val	Met	Glu	Arg	Phe	Arg	Leu	Asp
65				70						75				80	

Ala	Trp	Lys	Arg	Ala	Glu	Ala	Ile	Glu	Ser	Ser	Leu	Glu	Val	Glu	Lys
			85						90					95	

Lys	Asp	Lys	Leu	Ala	Asn	Thr	Ser	Val	Arg	Phe	Gln	Asn	Ser	Gln	Ile
			100					105					110		

Ser	Ser	Gly	Thr	Gln	Val	Glu	Lys	Tyr	Lys	Lys	Asn	Tyr	Leu	Pro	Met
		115					120					125			

Gln	Gly	Lys	Arg	Leu	His	Asp	Leu	Phe	Ile	Lys	His	Phe	Arg	Met	
	130					135					140				

<210> 5099

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5099

Thr	Met	Ile	Thr	Pro	Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys
1				5					10					15	

Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro
			20				25						30		

4590

Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Gly Asn Glu Tyr Ile His
 35 40 45

Phe Ser Val Ile Lys Leu Leu Lys Val Asn Phe Asn Val Leu Ile Val
 50 55 60

Phe Leu Met Cys Ala Ala Glu Met Ala Met Ser Leu Leu Asn Leu His
 65 70 75 80

Leu Gln Leu Lys Gly Ser Phe Arg Arg Lys Tyr Lys Leu Ala Phe Ile
 85 90 95

Leu Gln Thr Ile Val Phe Tyr Phe Ile Ile Leu Ile Cys Phe Val Thr
 100 105 110

His Lys Lys Glu Thr Ile Pro Glu Leu
 115 120

<210> 5100

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5100

Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Lys Ile Ile Cys Lys Ile
 1 5 10 15

Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser
 20 25 30

Ser His Tyr Ile Ile Phe Ile Val Leu Ser
 35 40

<210> 5101

<211> 48

<212> PRT

<213> Homo sapiens

4591

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5101

Lys	Tyr	His	Ser	Ser	His	Xaa	Asn	Ile	Pro	Phe	Asn	Leu	Leu	Phe	Leu
1				5					10					15	

Lys	Gly	Tyr	Cys	Lys	Tyr	Glu	Ser	Ile	Tyr	Lys	Val	Asn	Cys	Tyr	Phe
			20					25					30		

Phe	Cys	Ser	Glu	Lys	Tyr	Thr	Leu	Lys	Ile	Val	Ile	Val	Asn	Asn	Val
		35					40					45			

<210> 5102

<211> 45

<212> PRT

<213> Homo sapiens

<400> 5102

Glu	Arg	Asn	Trp	Met	Phe	Gln	Lys	Leu	Leu	His	Leu	Leu	Gln	Met	Ser
1				5					10					15	

Gln	Ile	Gln	Leu	Leu	Pro	Phe	Glu	Asn	Val	Gly	Glu	Met	Ser	Leu	Lys
			20					25					30		

Asn	Met	Phe	Val	Cys	Lys	Asn	Val	Ser	Val	Cys	Asn	Ser
		35					40					45

<210> 5103

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5103

Val	Trp	Gly	Pro	Pro	Val	Pro	Ser	Trp	Ala	Ala	Glu	Gly	Gly	Ala	Phe
1				5					10					15	

Tyr	Pro	Arg	Phe	Leu	Ser	Leu	Leu	Lys	Ser	Leu	Glu	Gln	Thr	Val	Ala
			20					25					30		

Ala	Leu	His	Pro	Leu	Leu	Phe	Lys	Lys	Asn	Phe	Phe	Ser	Arg	Lys	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4592

35 40 45
 Met Leu Ser Val Cys Trp Gly Lys Phe
 50 55

 <210> 5104
 <211> 56
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5104
 Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
 1 5 10 15
 Pro Arg Val Arg Ser Leu Asp Ser Asn Xaa Leu Ser Ile Asn Phe Ser
 20 25 30
 Pro Gln Thr Thr Val Asn Phe Tyr Phe Leu Ser Ala Glu Ile Phe His
 35 40 45
 Arg Trp Lys Leu Met Phe Gln Phe
 50 55

 <210> 5105
 <211> 370
 <212> PRT
 <213> Homo sapiens

 <400> 5105
 Lys Gly Arg Ser Ser Glu Ser Thr Thr Pro Leu Asn Val Ser Arg Glu
 1 5 10 15
 Thr Leu Gln Gln His Lys Leu Leu Lys Val Ile Arg Lys Lys Leu Val
 20 25 30
 Arg Lys Thr Leu Asp Met Ile Lys Lys Ile Ala Asp Asp Lys Tyr Asn
 35 40 45
 Asp Thr Phe Trp Lys Glu Phe Gly Thr Asn Ile Lys Leu Gly Val Ile
 50 55 60
 Glu Asp His Ser Asn Arg Thr Arg Leu Ala Lys Leu Leu Arg Phe Gln

4593

65		70		75		80
Ser Ser His His Pro Thr Asp Ile Thr Ser Leu Asp Gln Tyr Val Glu						
		85		90		95
Arg Met Lys Glu Lys Gln Asp Lys Ile Tyr Phe Met Ala Gly Ser Ser						
	100		105		110	
Arg Lys Glu Ala Glu Ser Ser Pro Phe Val Glu Arg Leu Leu Lys Lys						
	115		120		125	
Gly Tyr Glu Val Ile Tyr Leu Thr Glu Pro Val Asp Glu Tyr Cys Ile						
	130		135		140	
Gln Ala Leu Pro Glu Phe Asp Gly Lys Arg Phe Gln Asn Val Ala Lys						
	145		150		155	160
Glu Gly Val Lys Phe Asp Glu Ser Glu Lys Thr Lys Glu Ser Arg Glu						
		165		170		175
Ala Val Glu Lys Glu Phe Glu Pro Leu Leu Asn Trp Met Lys Asp Lys						
		180		185		190
Ala Leu Lys Asp Lys Ile Glu Lys Ala Val Val Ser Gln Arg Leu Thr						
	195		200		205	
Glu Ser Pro Cys Ala Leu Val Ala Ser Gln Tyr Gly Trp Ser Gly Asn						
	210		215		220	
Met Glu Arg Ile Met Lys Ala Gln Ala Tyr Gln Thr Gly Lys Asp Ile						
	225		230		235	240
Ser Thr Asn Tyr Tyr Ala Ser Gln Lys Lys Thr Phe Glu Ile Asn Pro						
		245		250		255
Arg His Pro Leu Ile Arg Asp Met Leu Arg Arg Ile Lys Glu Asp Glu						
		260		265		270
Asp Asp Lys Thr Val Leu Asp Leu Ala Val Val Leu Phe Glu Thr Ala						
	275		280		285	
Thr Leu Arg Ser Gly Tyr Leu Leu Pro Asp Thr Lys Ala Tyr Gly Asp						
	290		295		300	
Arg Ile Glu Arg Met Leu Arg Leu Ser Leu Asn Ile Asp Pro Asp Ala						
	305		310		315	320
Lys Val Glu Glu Glu Pro Glu Glu Glu Pro Glu Glu Thr Ala Glu Asp						
		325		330		335
Thr Thr Glu Asp Thr Glu Gln Asp Glu Asp Glu Glu Met Asp Val Gly						

4594

340 345 350
 Thr Asp Glu Glu Glu Glu Thr Ala Lys Glu Ser Thr Ala Glu Lys Asp
 355 360 365
 Glu Leu
 370

 <210> 5106
 <211> 64
 <212> PRT
 <213> Homo sapiens

 <400> 5106
 Ile Ile Ile Ile Lys Lys Ile Asn Ala Met Gln Leu Gly Met Ala Asn
 1 5 10 15
 Val Asn Ala Tyr Leu Tyr Gln Arg Leu Thr Leu Ser Ser Gly Leu Ser
 20 25 30
 Leu Val Asp Tyr Pro Trp Gln Thr Leu Asn Glu Gln Arg Glu Ala Thr
 35 40 45
 Met Leu Lys Asp Lys Ser Pro Leu Ser Ser Tyr Tyr Arg Asn Asn Val
 50 55 60

<210> 5107
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5107
 Xaa Gln Ala Thr Ala Ile Asn Thr Asp Val Asn Gly Cys Ile Cys Phe
 1 5 10 15

4595

Ala Val Val Thr Gly Leu Gly Arg Phe Gly Ile Cys Glu Arg Ile Asp
 20 25 30

Ser Phe Ser Lys Leu Phe His Lys Val Lys Lys Leu His Phe Lys Gly
 35 40 45

Asn Arg Ser Tyr Ser Ser Leu Lys Ser Xaa Ser Asn Cys Ser Phe Ile
 50 55 60

<210> 5108

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5108

Val Glu Pro Arg His Ser Ser Ala Xaa Asn Leu His Ser Leu Ser Ile
 1 5 10 15

Ser His Ser Pro Ser Leu Phe Pro Leu Trp Pro His Trp His Pro Gly
 20 25 30

Thr Phe Xaa Pro Xaa Gly Leu Cys Thr Tyr Cys Ser Asn Ser Leu Glu
 35 40 45

Cys Pro His Ser His Thr Lys Ser Leu Ala Ser Phe Thr Ala Leu Leu

4596

50 55 60
 Lys Ser His Leu Leu Ser Glu Ala Phe Pro Asp His Pro Ala Thr Asn
 65 70 75 80
 Ser Pro Ser Leu Cys Asn Ile Ala Gly Phe Phe Leu Xaa Ala Phe Ile
 85 90 95
 Ile Ser

<210> 5109
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 5109
 Val Glu Thr Gly Phe Ile Met Leu Cys Arg Leu Leu Ser Asn Ser
 1 5 10 15

<210> 5110
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5110
 Glu Lys Pro Phe Ser Ser Phe Thr Ser Met Lys Ser Ser Asp Val Phe

4597

1	5	10	15
Ser Ser Lys Gly Met Thr Arg Trp Gly Glu Phe Asp Asp Leu Tyr Arg	20	25	30
Ile Ser Glu Leu Asp Arg Thr Gln Ile Pro Met Ser Glu Lys Arg Asn	35	40	45
Ser Gln Glu Asp Tyr Leu Ser Tyr His Ser Asn Thr Leu Lys Pro His	50	55	60
Ala Lys Asp Glu Pro Asp Ser Pro Val Leu Tyr Arg Thr Met Ser Glu	65	70	75
Ala Ala Leu Val Arg Lys Arg Met Lys Pro Leu Met Met Asp Arg Xaa	85	90	95
Glu Arg Gln Lys Asn Arg Ala Ser Ile Asn Gly His Phe Tyr Asn His	100	105	110
Glu Thr Ser Ile Phe Ile Pro Ala Phe Glu Ser Xaa Thr Lys Val Arg	115	120	125
Val Xaa Ser Xaa Met Arg Thr Glu Glu Val Ile Lys Gln Leu Leu Gln	130	135	140

<210> 5111

<211> 112

<212> PRT

<213> Homo sapiens

<400> 5111

Arg Phe Phe Ile Ile Val Pro Lys Thr Asn Thr Leu Gln Val Val Leu	1	5	10	15
Glu Arg His His Phe Cys Gly Met Phe Trp Leu Gly Glu Gly Val Thr	20	25	30	
Val Pro Thr Pro Pro Thr Ser Tyr Ala Ser Ala Leu Arg Arg Trp Leu	35	40	45	
Phe Ile Gln Thr Trp Thr Tyr Ser Leu Pro Arg Ala Asp Glu Met Leu	50	55	60	
Asn Phe Leu Trp Gly His Ser Leu Ile Val Pro Ala Ala Ala Thr Gly	65	70	75	80

4598

Ala Ser Leu Glu Ala Ala Cys Ala Lys Thr Thr Gln Leu Ser Leu Gly
85 90 95

Ser His Pro Arg Ala Phe Phe Ala Ser Arg Ser Gly Asp Leu Leu Gln
100 105 110

<210> 5112

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5112

Glu	Ile	Tyr	Trp	Glu	Thr	Asp	Tyr	Asn	His	Ser	Gly	Thr	Ile	Asp	Ala
1				5					10					15	
His	Glu	Met	Arg	Thr	Ala	Leu	Arg	Lys	Ala	Gly	Phe	Thr	Leu	Asn	Ser
			20					25					30		
Gln	Val	Gln	Gln	Thr	Ile	Ala	Leu	Arg	Tyr	Ala	Cys	Ser	Lys	Leu	Gly
		35					40					45			
Ile	Asn	Phe	Asp	Ser	Phe	Val	Ala	Cys	Met	Ile	Arg	Leu	Glu	Thr	Leu
	50					55					60				
Phe	Lys	Leu	Phe	Ser	Leu	Leu	Asp	Glu	Asp	Lys	Asp	Gly	Met	Val	Gln
65					70					75					80
Leu	Ser	Leu	Ala	Glu	Trp	Leu	Cys	Cys	Val	Leu	Val				
				85				90							

<210> 5113

<211> 27

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5113

Asn Pro Val Ser Thr Lys Asn Thr Lys Ile Ser Trp Thr Trp Trp Trp
1 5 10 15

4599

Ala Pro Val Val Pro Ala Thr Gln Xaa Gly Glu
 20 25

<210> 5114

<211> 333

<212> PRT

<213> Homo sapiens

<400> 5114

Arg Pro Arg Val Arg Glu Asn Leu Pro Leu Trp Gln His Ile Ser Phe
 1 5 10 15

Gln Ala Leu Pro Pro Glu Leu Arg Glu Gln Thr Val His Glu Val Thr
 20 25 30

Thr Val Gly Thr Ala Glu Cys Arg Lys Trp Leu Ser Arg Ser Arg Thr
 35 40 45

Leu Gly Glu Leu Glu Ser Leu Asn Thr Val Leu Ser Ala Leu Leu Ala
 50 55 60

Val Cys Asn Ser Ala Gly Glu Ala Leu Asp Thr Gly Lys Gln Thr Ala
 65 70 75 80

Ile Ile Glu Val Val Ser Gln Leu Trp Ala Phe Leu Asn Ile Lys Gln
 85 90 95

Val Ala Asp Gln Pro Tyr Val Gln Gln Thr Phe Ser Leu Leu Leu Pro
 100 105 110

Leu Leu Gly Phe Phe Ile Gln Thr Leu Asp Pro Lys Leu Ile Leu Gln
 115 120 125

Ala Val Thr Leu Gln Thr Ser Leu Leu Lys Leu Glu Leu Pro Asp Tyr
 130 135 140

Val Arg Leu Ala Met Leu Asp Phe Val Ser Ser Leu Gly Lys Leu Phe
 145 150 155 160

Ile Pro Glu Ala Ile Gln Asp Arg Ile Leu Pro Asn Leu Ser Cys Met
 165 170 175

Phe Ala Leu Leu Leu Ala Asp Arg Ser Trp Leu Leu Glu Gln His Thr
 180 185 190

Leu Glu Ala Phe Thr Gln Phe Ala Glu Gly Thr Asn His Glu Glu Ile
 195 200 205

4600

Val Pro Gln Cys Leu Ser Ser Glu Glu Thr Lys Asn Lys Val Val Ser
 210 215 220

Phe Leu Glu Lys Thr Gly Phe Val Asp Glu Thr Glu Ala Ala Lys Val
 225 230 235 240

Glu Arg Val Lys Gln Glu Lys Gly Ile Phe Trp Glu Pro Phe Ala Asn
 245 250 255

Val Thr Val Glu Glu Ala Lys Arg Ser Ser Leu Gln Pro Tyr Ala Lys
 260 265 270

Arg Ala Arg Gln Glu Phe Pro Trp Glu Glu Glu Tyr Arg Ser Ala Leu
 275 280 285

His Thr Ile Ala Gly Ala Leu Glu Ala Thr Glu Ser Leu Leu Gln Lys
 290 295 300

Gly Pro Ala Pro Ala Trp Leu Ser Met Glu Met Glu Ala Leu Gln Glu
 305 310 315 320

Arg Met Asp Lys Leu Lys Arg Tyr Ile His Thr Leu Gly
 325 330

<210> 5115

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5115

Glu Gln Gln Leu Arg Arg Gly Gly Arg Val Gly Gly Gln Pro Tyr Val
 1 5 10 15

Trp Ser Thr Gln Arg Pro Ala Ile Pro Ile Ser Val Leu Leu Ser Ile
 20 25 30

Ser Ser Glu Asp Leu Ser Glu Asn Arg Ala Gly Met Arg Ser Gln Thr
 35 40 45

<210> 5116

<211> 40

<212> PRT

<213> Homo sapiens

4601

<400> 5116

Asn Pro Ile Ser Thr Lys Asn Ala Lys Ile Ser His Val Trp Cys Tyr
1 5 10 15
Ala Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
20 25 30
Glu Pro Arg Arg Arg Arg Leu Trp
35 40

<210> 5117

<211> 32

<212> PRT

<213> Homo sapiens

<400> 5117

Asn His Leu Ile Cys Lys Leu Glu Trp Ala Leu Glu Asn His Thr Val
1 5 10 15
Phe Leu Ser His Phe Thr Gly Lys Ile Thr Asp Val Ser Ile Cys Asp
20 25 30

<210> 5118

<211> 16

<212> PRT

<213> Homo sapiens

<400> 5118

Asn Phe Ile Ala Leu Ser Ser Tyr Ile Ile Lys Glu Asp Lys Pro Gln
1 5 10 15

<210> 5119

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

4602

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5119

```

Pro Leu Pro His Ala Asp Leu Gln Gln Val Ala Gln Xaa Glu Pro Asn
 1             5             10             15

Asn Ala Tyr Asp Glu Glu Asp Cys Val Glu Met Val Ala Ser Gly Gly
          20             25             30

Trp Asn Asp Val Ala Cys His Thr Thr Met Tyr Phe Met Cys Glu Phe
          35             40             45

Asp Lys Glu Asn Met
          50

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<210> 5120

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5120

```

Ser Leu Asp Ile His Lys Glu Arg Arg Tyr Ser Asp Glu Gly Asp His
 1             5             10             15

Asn Ser Val Val Leu Met Ile Leu Asp Tyr Asn Leu Phe Leu Phe Ile
          20             25             30

Phe His Ser Phe Phe Lys Asn Met Asp Cys Ile Leu Ser Thr Thr Ile
          35             40             45

Ser Gln Ile Pro Lys Ile Val Leu Thr Phe Ser Asp Tyr
          50             55             60

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<210> 5121

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

4603

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5121

Gln	Asn	Asn	Thr	Val	Leu	Val	Glu	Gly	Cys	Phe	Cys	Pro	Glu	Gly	Thr
1				5					10					15	

Met	Asn	Tyr	Ala	Pro	Gly	Phe	Asp	Val	Cys	Val	Lys	Thr	Cys	Gly	Cys
			20				25						30		

Xaa	Gly	Pro	Asp	Asn	Val	Pro	Arg	Glu	Phe	Gly	Glu	His	Phe	Glu	Phe
		35					40					45			

Asp	Cys	Lys	Asn	Cys	Val	Cys	Leu	Glu	Gly	Gly	Ser	Gly	Ile	Ile	Cys
	50					55					60				

Gln	Pro	Lys	Arg	Cys	Ser	Gln	Lys	Pro	Val	Thr	His	Cys	Val	Glu	Asp
65					70					75					80

Gly	Thr	Tyr	Leu	Ala	Thr	Glu	Val	Asn	Pro	Ala	Asp	Thr	Cys	Cys	Asn
				85					90					95	

Xaa	Thr	Val	Cys	Lys	Cys	Gln	His	Gln	Pro	Val	Gln	Arg	Glu	Ala	Leu
			100					105					110		

Arg	Val	Pro	Ala	Gly	Asn	Ser	Lys	Trp	Lys	Ser	Lys	Met	Val	Pro	Gly
		115					120					125			

Lys	Cys	Cys	Pro	Phe	Tyr	Trp	Cys	Glu	Val	Gln	Gly	Gly	Val	Cys	Ser
	130					135					140				

Arg	Gly	Met	Leu	Ser	Thr	Ser	Pro	Val	Leu	Pro	Val	Tyr	Ser	Ser	Lys
145					150					155					160

Trp	Pro	Gly	Leu	Ala	Cys	Xaa	Lys	Gly	Gln	Gly	Gly	Thr	Thr	Thr	Thr
			165						170					175	

Leu	Xaa	Gln	Arg	Ser	Leu	Ala	Trp	Gln	Pro	Thr	Gly	Gly
			180					185				

<210> 5122

4604

<211> 225

<212> PRT

<213> Homo sapiens

<400> 5122

Glu Ala Ser Ser Pro Thr Phe Ser Lys Glu Pro Met Lys Val Gln Asp
 1 5 10 15

Ser Val Leu Ile Lys Ala Asp Asn Thr Ile Glu Gly Asp Asn Asn Glu
 20 25 30

Gln Asn Tyr Ile Lys Asp Val Lys Leu Glu Asp His Leu Leu Ala Gly
 35 40 45

Ser Cys Leu Lys Gln Ser Ser Lys Asn Ile Phe Thr Glu Arg Ala Glu
 50 55 60

Asp Gln Ile Lys Ile Ser Thr Arg Lys Gln Lys Ser Val Lys Glu Ile
 65 70 75 80

Ser Ser Tyr Thr Pro Lys Asp Cys Thr Ser Arg Asn Gly Pro Glu Arg
 85 90 95

Gly Cys Asp Arg Gly Ile Ile Val Ser Thr Arg Leu Leu Thr Asp Ser
 100 105 110

Ser Thr Asp Ala Leu Glu Lys Val Ser Thr Ser Asn Glu Asp Phe Ser
 115 120 125

Leu Lys Asp Asp Ala Leu Ala Lys Thr Ser Lys Arg Lys Thr Lys Val
 130 135 140

Gln Lys Asp Glu Ile Cys Ala Lys Leu Ser His Val Ile Lys Lys Gln
 145 150 155 160

His Arg Lys Ser Thr Leu Val Asp Asn Thr Ile Asn Leu Asp Glu Asn
 165 170 175

Leu Thr Val Ser Asn Ile Glu Ser Phe Tyr Ser Arg Lys Asp Thr Gly
 180 185 190

Val Gln Lys Gly Asp Gly Phe Ile His Asn Leu Ser Leu Asp Pro Ser
 195 200 205

Gly Val Leu Asp Asp Lys Asn Gly Glu Gln Lys Ser Gln Asn Asn Val
 210 215 220

Leu

225

4605

<210> 5123

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5123

Glu	Gln	Lys	Gly	Ser	Arg	Glu	Trp	Gly	Ser	Lys	Asn	Gly	Ser	Arg	Val
1				5				10					15		

Arg	Met	Arg	Ser	Gln	Xaa	Lys	Trp	Cys	Phe	Xaa	Gly	Gly	His	Lys	Glu
			20					25					30		

Gly	Arg	Val	Ile	Asp	Phe
		35			

<210> 5124

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5124

Cys	Gln	Thr	Ile	Trp	Arg	Ser	Ile	Arg	Gly	Leu	Thr	Gly	His	Ile	Ile
1				5					10				15		

Arg	Gln	Pro	His	Phe	Ser	Ser	Ser	Ser	Met	Arg	Lys	Trp	Met	Ile	Ser
			20					25					30		

Leu	Phe	His	Met	Ser	Leu	Gly	Glu	Arg	Leu	Pro	Val	Pro	Leu	Lys	Leu
		35					40					45			

Cys	Ile	Leu	Leu	Glu	Thr	Glu	Ala	Ser	Arg	Trp	Leu	Trp	Gln	Leu	Ala
	50					55					60				

Lys	Ala	Lys	Met	Leu	Cys	Ala
65					70	

4606

<210> 5125

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5125

Arg	Arg	Val	Gln	Gln	Glu	Ile	Asp	Asp	Val	Ile	Gly	Gln	Val	Arg	Arg
1				5					10					15	

Pro	Glu	Met	Gly	Asp	Gln	Ala	His	Met	Pro	Tyr	Thr	Thr	Ala	Val	Ile
			20					25					30		

His	Glu	Val	Gln	Arg	Phe	Gly	Asp	Ile	Val	Pro	Xaa	Gly	Val	Thr	His
		35					40					45			

Met	Thr	Ser	Arg	Asp	Ile	Glu	Val	Gln	Gly	Phe	Arg	Ile	Pro	Lys	Gly
	50					55					60				

Thr	Thr	Leu	Ile	Thr	Asn	Leu	Ser	Ser	Val	Leu	Lys	Asp	Glu	Ala	Val
65					70					75					80

Trp	Glu	Lys	Pro	Phe	Arg	Phe	His	Pro	Glu	His	Phe	Leu	Asp	Ala	Gln
				85					90					95	

Gly	His	Phe	Val	Lys	Pro	Glu	Ala	Phe	Leu	Pro	Phe	Ser	Ala	Gly	Arg
			100					105					110		

Arg	Ala	Cys	Leu	Gly	Glu	Pro	Leu	Ala	Arg	Met	Glu	Leu	Phe	Leu	Phe
		115					120					125			

Phe	Thr	Ser	Leu	Leu	Gln	His	Phe	Ser	Phe	Ser	Val	Pro	Thr	Gly	Gln
	130					135					140				

Pro	Arg	Pro	Ser	His	His	Gly	Val	Phe	Ala	Phe	Leu	Val	Ser	Pro	Ser
145					150					155					160

4607

Pro Tyr Glu Leu Cys Ala Val Pro Arg Arg Met Gly Tyr Leu Val Pro
165 170 175

Ser Leu Leu Pro Xaa Gln Arg Xaa
180

<210> 5126

<211> 84

<212> PRT

<213> Homo sapiens

<400> 5126

Ala Gln Val Ser Phe Ser Pro Trp Met Ala Ser Ala Ala Pro Gly Arg
1 5 10 15

Pro His Leu Val Leu Tyr Cys Glu Ser Leu Ala Thr Gln Val Arg Ser
20 25 30

Gly Pro Gly Pro Arg Met Ala Ser Val Ala Arg Lys Tyr Ala Lys Glu
35 40 45

Glu Val Asn Pro Ile Ala Gly Leu Glu Asp Ser Asp Gln Thr Thr Arg
50 55 60

Gly Leu Leu Asn Lys Gly Arg Arg Cys Pro Cys Leu Met Gly Leu Ala
65 70 75 80

Trp Gly Gly Gly

<210> 5127

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5127

Arg Pro Pro Thr Thr Thr Lys Phe Ala Xaa Ala Arg Gln Met Ala Gly

4608

1 5 10 15
 Lys Gln Ala Val Ser Xaa Ser Gly Lys Trp Leu Asp Gly Ile Arg Lys
 20 25 30
 Trp Tyr Tyr Asn Ala Ala Gly Phe Asn Lys Leu Gly Leu Met Arg Asp
 35 40 45
 Asp Thr Ile Tyr Glu Asp Glu Asp Val Lys Glu Ala Ile Arg Arg Leu
 50 55 60
 Pro Glu Asn Leu Tyr Asn Asp Arg Met Phe Arg Ile Lys Arg Ala Leu
 65 70 75 80
 Asp Leu Asn Leu Lys His Gln Ile Leu Pro Lys Glu Gln Trp Thr Lys
 85 90 95
 Tyr Glu Glu Glu Asn Phe Tyr Leu Glu Pro Tyr Leu Lys Glu Val Ile
 100 105 110
 Arg Glu Arg Lys Glu Arg Glu Glu Trp Ala Lys Lys
 115 120

<210> 5128

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5128

Tyr Gln Leu Gln Ala Gly Arg Glu Ser Leu Gln His Gly Pro Lys Met
 1 5 10 15
 Leu Ser Leu Gln Thr Gly Glu Gly Gln Val Gly Ser His Ser Ser Glu
 20 25 30
 Ser Leu Tyr Tyr Thr Ile Glu Ser Tyr Val Phe Ser Arg Phe Gly Val
 35 40 45
 Glu Ala Ile His Ile Tyr Glu Glu Ser Gln Ala Gln Glu Gln
 50 55 60

<210> 5129

<211> 49

<212> PRT

<213> Homo sapiens

<220>

4609

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5129

Phe	Lys	Trp	Val	Pro	Gln	Asn	Leu	Val	Val	Ile	Leu	Leu	Gly	Ile	Phe
1				5					10					15	

Val	Gln	Tyr	Ile	Ala	Leu	Xaa	Ser	Ser	Pro	Thr	Phe	Ser	Pro	Leu	Arg
			20					25					30		

Lys	His	Leu	His	Phe	Leu	Ser	Ser	Pro	Asn	Trp	Glu	Asn	Met	Gln	Ile
		35					40					45			

Leu

<210> 5130

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5130

Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Asn	Lys	Cys
1				5					10					15	

Xaa	Val	Xaa	Phe	Ile	Thr	Asn	Ile	Asn	Ile	Ile	Phe	Leu	Leu	Phe	Ile
				20				25					30		

Leu	Tyr	Ala	Ser	Phe	Tyr	Thr	Phe	Thr	His	Thr	Lys	Asn	Ile	Lys	Asn
			35				40					45			

Ile	Ser	Asn	Tyr	Ser	Ile	Leu	Val	Glu	Phe	Ser	Leu	Lys
			50			55					60	

<210> 5131

<211> 58

4610

<212> PRT

<213> Homo sapiens

<400> 5131

```

Ile Tyr Val Lys His Lys Pro Leu Ile Phe Leu Lys Lys Ser Arg Leu
 1             5             10             15

Leu Phe Phe His Ile Ile Ser Glu Pro Phe Ser Ser Phe Ala Cys Pro
          20             25             30

Leu Leu Gln Asn His Thr Asp Phe Val Leu His Phe Ile His His Leu
          35             40             45

Leu Lys Cys Pro Leu Lys Cys Asn Gly Ile
          50             55

```

<210> 5132

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5132

```

Asn Ala Lys Ser Gln Met Tyr Leu Ser Met Asn Phe Asp Ala Cys Thr
 1             5             10             15

His Leu Tyr Asn Ser Asn His Tyr Xaa Asp Val Glu His Asp His His
          20             25             30

Thr Arg Gly Pro Pro Ala Pro Ser Gln Leu Ile Leu Ile Ser Thr Pro
          35             40             45

Glu Ser Asn His Ser Ser Asp Phe Phe His His Arg Leu Val
          50             55             60

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<210> 5133

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5133

```

Arg Lys Pro Leu Trp Cys Leu Asn Asp Lys Tyr Ala Asp Ala Thr Leu
 1             5             10             15

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4611

Leu Cys Leu Met Tyr Gly Ala Leu Gly Gln Leu Phe Asn Ile Lys Gln
 20 25 30
 Leu Arg Thr Cys Phe Arg Lys Cys Cys Ser Phe Ala Leu His Ala Lys
 35 40 45
 Val Leu Gly Lys Lys Leu Thr Ile Cys Lys Asn Ile Asp Ala Gln Ala
 50 55 60
 His Lys Glu Phe Ile Leu
 65 70

<210> 5134

<211> 96

<212> PRT

<213> Homo sapiens

<400> 5134

Lys Leu Pro Asn Phe Tyr Gln Leu Glu Gly His Pro Trp Val Phe Val
 1 5 10 15
 Arg Ser Tyr Leu Met Ser Leu Cys Leu Gly Asp Ser Ala Gly Trp Ser
 20 25 30
 Leu Gly Pro Gly Gly Pro Ser Pro Gly Val Cys Arg Trp Thr Arg Ser
 35 40 45
 Pro Thr Gly Asp Ile Asn Leu Arg Val Ala Ser Leu Glu Thr Gly Thr
 50 55 60
 Trp Ala Ala Leu Phe Pro Ser Pro Leu Leu Arg Gly Leu Gly Arg Cys
 65 70 75 80
 Cys Phe His Ala Ala Ser Thr Ile Thr Leu Gly Phe Leu Asp Gly Lys
 85 90 95

<210> 5135

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5135

His Asp Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe

4612

1	5	10	15
Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Ser			
	20	25	30
Arg Pro Gly Asn Phe Phe Val Leu Leu Val Glu Thr Val Ile His Tyr			
	35	40	45
Val Gly Gln Ala Ser His Glu Leu Leu Thr Ser			
	50	55	

<210> 5136

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5136

Gly Phe Ile Gln Arg Ser Asn Phe Leu Xaa Xaa Gln Lys Ile His Thr			
1	5	10	15
Glu Glu Lys Leu Tyr Glu Cys Ser Gln Tyr Gly Arg Asp Phe Asn Ser			
	20	25	30
Thr Thr Asn Val Lys Asn Asn Gln Arg Val His Gln Glu Gly Leu Ser			
	35	40	45
Leu Ser Lys Ala Pro Ile His Leu Gly Glu Arg Ser Val Asp Lys Gly			
	50	55	60
Glu His Thr Gly Asn Leu			
	65	70	

<210> 5137

<211> 78

<212> PRT

<213> Homo sapiens

4613

<400> 5137

Pro Val Ser Phe Tyr Leu Pro Leu Pro Phe Trp Met Lys Met Leu Ile
1 5 10 15
Val Gly His Phe Leu Ala Arg Thr Ala Leu Val Pro Leu Thr His Lys
20 25 30
Thr Arg Leu Leu Ser Phe Ile Asp Thr Ser Ile Lys Lys Arg Phe Lys
35 40 45
Asp Arg Ala Arg Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
50 55 60
Glu Ala Gly Gly Ser Pro Glu Val Gly Ser Ser Arg Pro Ala
65 70 75

<210> 5138

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5138

Ile Pro Arg Leu Leu Cys Ser Thr Gly Gln Thr Ser Trp Ser Ile Cys
1 5 10 15
Val Gly Glu Thr Trp Glu Lys Ala Lys Thr Met Cys Glu Cys Tyr Asp
20 25 30
Tyr Leu Phe Asp Ile Ala Val Ser Met Lys Lys Val Gly Leu Asp Pro
35 40 45
Ser Gln Leu Pro Val Gly Glu Asn Gly Ile Val
50 55

<210> 5139

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5139

Asp Phe Phe Ser Leu Tyr Phe His Pro Thr Asn His Leu Glu Ser Gly
1 5 10 15
Ile Lys Gly Ile Asn Gln Glu Lys Thr Glu Gly Gln Glu Thr Glu Pro
20 25 30
Asn Lys Gly Asp Pro Ser Gln Gly Ala Trp Glu Ser Ala Gly Leu Asp

4614

35

40

45

Ala Pro Pro Ser Ser Ala Ser Tyr
 50 55

<210> 5140

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5140

Thr Gly Leu Glu Thr Leu Gly Ser Gln His Leu Tyr Phe Leu Val Arg
 1 5 10 15

Lys Trp Ala Trp Arg Cys Trp Glu Ile Lys Arg Gly Val Gly Glu Asp
 20 25 30

Pro Val Ser Val Ser Ser Cys Val Val Asp Val Asn Leu Ala Val Asn
 35 40 45

Val Ala Gly Cys Val Ser Cys Leu Leu Ser Asn Cys Trp Leu Pro Arg
 50 55 60

His Ser Val Leu Leu Xaa Phe Ser Glu Phe His
 65 70 75

<210> 5141

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5141

His Ala Ser Ser Leu Gly Asp Arg Val Arg Leu Phe Leu Lys Ile Lys
 1 5 10 15

Thr Lys Asn Lys Phe Leu Leu Glu Val Gly Trp Arg Trp Gly Ala Arg
 20 25 30

Ile

4615

<210> 5142

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5142

Met	Tyr	Ser	Lys	Val	Trp	Leu	Pro	Phe	Arg	Ser	Leu	Gly	Gly	Ala	Val
1				5				10						15	

Leu	Asn	Ser	Phe	Ser	Asn	Arg	Ala	Thr	Phe	Tyr	Phe	Leu	Ile	Glu	Leu
			20					25					30		

Leu	Phe	Asn	Phe	Tyr	Phe	Leu	Ile	Gly	Xaa
		35					40		

<210> 5143

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5143

Ala	Gly	Pro	Glu	Leu	Pro	Pro	Leu	Gln	Val	Gln	Met	His	Arg	Cys	Ser
1				5				10						15	

Cys	Pro	Ser	Val	Ser	Ser	Gln	Gly	Cys	Lys	Arg	Arg	Thr	His	Pro	Ser
			20					25					30		

Arg	Lys	Gln	Pro	Glu	Pro	Gly	Thr	Gly	Cys	Ala	Lys	Glu	His	Cys	Tyr
		35					40					45			

Gln	Val	Glu	Glu	Arg	Gly	Leu	Pro	Cys	Thr	Gln	Asp	Val	Glu	Ser	Leu
	50					55					60				

Leu	Arg	Ser	Glu	Gln	Lys	Ile	Lys	Asn	Lys	Ser	Leu	Leu	Lys	Gly	Leu
65					70					75					80

Ile	Gly	Gln	Val	Cys	Phe	Ser	Leu	Glu	Gln	Cys	Phe	Ala	Leu	Glu	Asn
				85					90					95	

Cys	Lys	Ile	Tyr	Val	Met	Thr	Gln	Tyr	Ile	Cys	Val	Arg	Thr	Tyr	Met
			100					105					110		

Ile	Gly	Ile	Lys	Cys	Leu
-----	-----	-----	-----	-----	-----

4616

115

<210> 5144

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5144

Ser Gln Lys Gly Arg Val Ile Ile Lys Glu Glu Ser Asp Gln Glu Ser
 1 5 10 15

Lys Ile Asp Arg Glu Ser Arg Leu Leu Glu Lys Trp Glu Asn Tyr Arg
 20 25 30

Thr Asp Ser Ala Arg Arg Arg Gln Ala Gly Glu Glu Arg Pro Ser Gln
 35 40 45

Ser Ser Thr Cys Ala Asn Arg Lys Cys Val Arg Gly Phe Leu Glu Leu
 50 55 60

Thr Gly Ala Gly Asp His
 65 70

<210> 5145

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5145

Val Met Asn Ile Arg Ile Ile Ala Leu Ser Ala Gly Ser Phe Thr Arg
 1 5 10 15

4617

Gln Glu Phe Xaa Asn Cys Pro Ile Asn Ile Cys Leu Xaa Ser Cys Lys
 20 25 30

Lys Asp Xaa Phe Ile Phe Cys Ile Phe Ile Thr
 35 40

<210> 5146

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5146

Phe Gly Ser Leu Lys Met Leu Cys Gly Ala Lys Gln Ile Val Cys Gln
 1 5 10 15

Met Trp Pro Ser Ser Cys Gln Ser Cys Leu Tyr Gln Asp Ala Ser Leu
 20 25 30

Leu Thr Asn Ser His Ile Ala Thr Gly Val Glu Thr Val Leu Ala Thr
 35 40 45

Lys Leu Xaa Gly Phe His
 50

<210> 5147

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

4618

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5147

Trp	Tyr	Pro	Xaa	Pro	Pro	Gly	Xaa	Asp	Xaa	Asp	Gly	Pro	Lys	Ser	His
1				5					10					15	

Leu	Gly	Xaa	Arg	Leu	Tyr	Gly	Lys	Xaa	Gly	Leu	Ser	Asn	Tyr	Phe	Gln
			20					25					30		

Tyr	Ser	Ile	Val	Phe	His	Cys	Pro	Phe	Val	Phe	His	Lys	Leu	Asn	Asp
		35					40					45			

Cys	Leu	Ile	Phe	Pro	Lys	Ile	Tyr	Phe
	50					55		

<210> 5148

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5148

Val	Phe	Glu	Pro	Thr	Ser	His	Ala	Thr	Ser	His	Lys	Xaa	Thr	Tyr	His
1				5					10					15	

Leu	Arg	Thr	Ser	Ser	Ala	Lys	Met	Pro	Glu	Asn	Ile	Gln	Ser	Ser	Trp
			20					25					30		

Gln	Met	Thr	Gln	Gly	Ser	Leu	Ala	Leu	Leu	Thr	Ile	Phe	Leu	Ala	Asn
		35					40					45			

Leu	Asp	Trp	Lys	Gly	His	Leu	Gln	His	Cys	Pro	Gly	Ala	Asn	Thr	Leu
	50					55					60				

Phe	His	Cys	Leu	Cys	His	Ile	Met	Met	Pro	Ala	Leu	Ala	Ser	Trp	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

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<400> 5149
Ala Arg Ile Arg Met Ala Ile Ser Pro Arg Ser Asp Ala Thr Phe Ser
  1             5             10             15
Ser Gln Lys Ser Thr Pro Ser Glu Ser Pro Arg Thr Lys Lys Phe Pro
          20             25             30
Leu Thr Glu Glu Glu Ile Phe Tyr Met Xaa Cys Arg Ala Ala Tyr Leu
          35             40             45
Thr Val Phe Lys Ser Ser Leu Glu Asn Ile Ile Ser Lys Asp Gln Leu
          50             55             60
Tyr Leu Ala Leu Gln His Ala Gly Arg Asn Pro Ser Gln Lys Thr Ile
  65             70             75             80
Asn Lys Tyr Trp Thr Pro Gln Thr Ala Lys Leu Asn Phe Asp Asp Phe
          85             90             95
Cys Ile Ile Leu Arg Lys Glu Lys Pro Thr Ser Lys Ala Glu Leu Leu
          100            105            110
Lys Ser Phe Lys Gln Leu Asp Val Asn Asp Asp Gly Cys Ile Leu His
          115            120            125
Thr Asp Leu Tyr Lys Phe Leu Thr Lys Arg Gly Glu Lys Met Thr
          130            135            140

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<210> 5150

4620

<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5150
Ala Leu Leu Cys Arg Ser Ser Ser Tyr Ile Gly Pro Phe Lys Lys Leu
1 5 10 15
Pro Ala Glu Ile Pro Gly Val Ile Cys Leu Glu His Xaa Pro Leu Thr
20 25 30
Ser Ser Thr His Leu Leu Ala Ala Pro Arg His Ser Ser Asn Leu Ile
35 40 45
Leu Asn Val Ile Ser Leu Lys Lys Pro Phe Leu Thr Gln Ser Lys Ile
50 55 60
Ser Thr Phe Gly Tyr Ser Leu Ser Gln His Leu Asp Phe Phe Pro Ser
65 70 75 80

<210> 5151
<211> 29
<212> PRT
<213> Homo sapiens

<400> 5151
Ser Phe Cys Leu Tyr Lys Ser Thr Cys Ser Cys Ala Asn Pro Ser Val
1 5 10 15
Asp Ser Trp Gln His Glu Ser Leu Ile Pro Gly Tyr Asn
20 25

<210> 5152
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

4621

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5152

Val	Ser	Pro	Ser	Pro	Pro	Trp	Thr	Pro	Pro	Gly	Ala	Asp	Arg	Pro	Met
1				5					10					15	

Glu	Ser	Gln	Gly	Val	Pro	Pro	Gly	Pro	Tyr	Arg	Ala	Thr	Lys	Leu	Trp
			20					25					30		

Asn	Glu	Val	Thr	Thr	Ser	Phe	Arg	Ala	Gly	Met	Pro	Leu	Arg	Lys	His
		35					40					45			

Arg	Gln	His	Phe	Lys	Lys	Tyr	Gly	Asn	Cys	Phe	Thr	Ala	Gly	Glu	Ala
	50					55					60				

Val	Asp	Trp	Leu	Tyr	Asp	Leu	Leu	Arg	Asn	Asn	Ser	Asn	Phe	Gly	Pro
65					70					75					80

Glu	Val	Thr	Arg	Gln	Gln	Thr	Ile	Gln	Leu	Leu	Arg	Lys	Phe	Leu	Lys
				85					90					95	

Asn	His	Val	Ile	Glu	Asp	Ile	Lys	Gly	Arg	Trp	Gly	Ser	Glu	Asn	Val
		100						105					110		

Asp	Asp	Asn	Asn	Gln	Leu	Phe	Arg	Phe	Pro	Ala	Thr	Ser	Pro	Leu	Lys
		115					120					125			

Thr	Leu	Pro	Arg	Arg	Tyr	Pro	Glu	Leu	Arg	Lys	Asn	Asn	Ile	Glu	Asn
	130					135					140				

Phe	Ser	Lys	Asp	Lys	Asp	Ser	Ile	Phe	Lys	Leu	Arg	Asn	Leu	Ser	Arg
145					150					155					160

Arg	Thr	Pro	Lys	Arg	His	Gly	Leu	His	Leu	Ser	Xaa	Glu	Asn	Gly	Glu
				165					170					175	

Lys	Ile	Asn	Met	Lys
			180	

<210> 5153

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4622

<400> 5153

Asn Lys Tyr Asn Met Tyr Ile Pro Asp Leu Leu Ser Ile Leu Tyr Lys
 1 5 10 15

Val Ala Met Thr Lys Gly Ala Asn Lys Tyr Tyr Ile Ile Tyr Leu Ala
 20 25 30

Phe Leu Leu His Glu Met Met Trp Val Xaa
 35 40

<210> 5154

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5154

Glu Val Gly Phe Ser Leu Pro Ser Pro Gly Pro Val Cys Pro Tyr Pro
 1 5 10 15

Arg Pro Ala Ser Cys Ala Gln Ile Leu Phe Cys Leu Trp Lys Leu Leu
 20 25 30

Asp His Pro Arg Ser Ala Ala Cys Pro Asp Pro Tyr Pro Arg Ala Ser
 35 40 45

Leu Ser Ser Trp Glu Ala Gly Gln Ala Pro Val Arg Phe Arg Cys Ala
 50 55 60

Leu Cys Leu Ser Leu Asp Ser Arg Ala Asp Glu Pro Gln His His His
 65 70 75 80

Pro Ala Thr Tyr Lys Val Gly Asp Leu Gly Leu Gly Ser Gln Ala Gln
 85 90 95

Thr Gly Gly Pro His Ser Pro Leu Gly Pro Leu Pro Thr Pro Val Pro
 100 105 110

Ser Val Pro Gln Ser Gly Gly Ala Ser Arg Ala Ile Ser Asp Xaa Ala
 115 120 125

Gly Pro Arg
 130

4623

<210> 5155

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5155

Ala	Lys	Pro	Leu	Lys	Leu	Lys	His	Ile	Ser	Tyr	Leu	Lys	His	Leu	Gly
1				5					10					15	

Asn	Thr	Thr	Val	Lys	Tyr	Leu	Ser	Asn	Ile	Gln	Tyr	Met	Glu	Phe	Ile
			20					25					30		

Pro	Thr	Phe	Val	Cys	Ile	Ser	Ile	Cys	Lys	Leu	Leu	Leu	Arg	Arg	Ile
		35					40					45			

Glu	Ser	Leu	Asp	Tyr	Phe	Arg	Ile	Gln	Leu	Leu	Gln	Phe	Ser	Ile	Val
	50					55					60				

Asp

65

<210> 5156

<211> 31

<212> PRT

<213> Homo sapiens

<400> 5156

Val	Gly	Gly	Pro	Gln	Ile	Cys	Arg	Val	Cys	Gly	Asp	Arg	Pro	Trp	Tyr
1				5					10					15	

His	Phe	Asn	Val	Met	Thr	Cys	Glu	Gly	Cys	Lys	Gly	Phe	Phe	Arg	
			20					25					30		

<210> 5157

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4624

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5157

Ala	Asp	Ala	Trp	Ala	Arg	Ser	Phe	Leu	Val	Asp	Ser	Leu	Val	Leu	Arg
1				5				10						15	

Glu	Ala	Gly	Glu	Lys	Lys	Ala	Pro	Glu	Gly	Ser	Pro	Pro	Pro	Leu	Phe
			20					25					30		

Pro	Tyr	Ala	Val	Pro	Pro	Pro	His	Ala	Leu	His	Gly	Leu	Ser	Pro	Gly
		35					40					45			

Ala	Cys	His	Ala	Arg	Lys	Ala	Gly	Leu	Leu	Cys	Val	Cys	Pro	Leu	Cys
	50					55					60				

Val	Thr	Ala	Ser	Gln	Xaa	His	Gly	Pro	Pro	Gly	Pro	Pro	Arg	Cys	Leu
65						70				75					80

Tyr	Ser	Arg	Leu	Pro	Ser	His	Pro	Ser	Ala	Arg	Ser	Thr	Ala	Arg	Ala
				85					90					95	

Pro	Gly	Pro	Xaa	Ala	Leu	Cys	Xaa	Val	Ala	Arg	Gly
			100					105			

<210> 5158

<211> 438

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (413)

<223> Xaa equals any of the naturally occurring L-amino acids

4625

<220>

<221> SITE

<222> (428)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5158

Glu	Ala	Gln	Ala	Tyr	Thr	Ala	Tyr	Leu	Ser	Gly	Met	Leu	Arg	Phe	Glu
1				5				10				15			

His	Gln	Glu	Trp	Lys	Ala	Ala	Ile	Glu	Ala	Phe	Asn	Lys	Cys	Lys	Thr
			20					25				30			

Ile	Tyr	Glu	Lys	Leu	Ala	Ser	Ala	Phe	Thr	Glu	Glu	Gln	Ala	Val	Leu
		35					40					45			

Tyr	Asn	Gln	Arg	Val	Glu	Glu	Ile	Ser	Pro	Asn	Ile	Arg	Tyr	Cys	Ala
	50						55				60				

Tyr	Asn	Ile	Gly	Asp	Gln	Ser	Ala	Ile	Asn	Glu	Leu	Met	Gln	Met	Arg
65					70					75					80

Leu	Arg	Ser	Gly	Gly	Thr	Glu	Gly	Leu	Leu	Ala	Glu	Lys	Leu	Glu	Ala
				85				90						95	

Leu	Ile	Thr	Gln	Thr	Arg	Ala	Lys	Gln	Ala	Ala	Thr	Met	Ser	Glu	Val
			100					105					110		

Glu	Trp	Arg	Gly	Arg	Thr	Val	Pro	Val	Lys	Ile	Asp	Lys	Val	Arg	Ile
		115					120					125			

Phe	Leu	Leu	Gly	Leu	Ala	Asp	Asn	Glu	Ala	Ala	Ile	Val	Gln	Ala	Glu
	130					135					140				

Ser	Glu	Glu	Thr	Lys	Glu	Arg	Leu	Phe	Glu	Ser	Met	Leu	Ser	Glu	Cys
145					150					155					160

Arg	Asp	Ala	Ile	Gln	Val	Val	Arg	Glu	Glu	Leu	Lys	Pro	Asp	Gln	Lys
				165					170					175	

Gln	Arg	Asp	Tyr	Ile	Leu	Glu	Gly	Glu	Pro	Gly	Lys	Val	Ser	Asn	Leu
			180					185					190		

Gln	Tyr	Leu	His	Ser	Tyr	Leu	Thr	Tyr	Ile	Lys	Leu	Ser	Thr	Ala	Ile
		195					200					205			

Lys	Arg	Asn	Glu	Asn	Met	Ala	Lys	Gly	Leu	Gln	Arg	Ala	Leu	Leu	Gln
	210					215					220				

Gln	Gln	Pro	Glu	Asp	Asp	Ser	Lys	Arg	Ser	Pro	Arg	Pro	Gln	Asp	Leu
225					230					235					240

Ile	Arg	Leu	Tyr	Asp	Ile	Ile	Leu	Gln	Asn	Leu	Val	Glu	Leu	Leu	Gln	
				245					250					255		
Leu	Pro	Gly	Leu	Glu	Glu	Asp	Lys	Ala	Phe	Gln	Lys	Glu	Ile	Gly	Leu	
				260					265					270		
Lys	Thr	Leu	Val	Phe	Lys	Ala	Tyr	Arg	Cys	Phe	Phe	Ile	Ala	Gln	Ser	
				275					280					285		
Tyr	Val	Leu	Val	Lys	Lys	Trp	Ser	Glu	Ala	Xaa	Val	Leu	Tyr	Asp	Arg	
				290					295					300		
Val	Leu	Lys	Tyr	Ala	Asn	Glu	Val	Asn	Ser	Asp	Ala	Gly	Ala	Phe	Lys	
305								310					315	320		
Asn	Ser	Leu	Lys	Asp	Leu	Pro	Asp	Val	Gln	Glu	Leu	Ile	Thr	Gln	Val	
				325					330					335		
Arg	Ser	Glu	Lys	Cys	Ser	Leu	Gln	Ala	Ala	Ala	Ile	Leu	Asp	Ala	Asn	
				340					345					350		
Asp	Ala	His	Gln	Thr	Glu	Thr	Ser	Ser	Ser	Gln	Val	Lys	Asp	Asn	Lys	
				355					360					365		
Pro	Leu	Val	Glu	Arg	Phe	Glu	Thr	Phe	Cys	Leu	Gly	Pro	Phe	Pro	Cys	
				370					375					380		
Ser	Pro	Ser	Lys	Pro	Thr	Leu	Trp	His	Phe	Pro	Pro	Xaa	Phe	Gln	Pro	
385								390					395	400		
Phe	Pro	Trp	Gln	Gly	Phe	Cys	Ser	Leu	Asp	Trp	Ala	Xaa	Lys	Pro	Cys	
				405					410					415		
Gly	Leu	Phe	Pro	Pro	Leu	Glu	Gly	Gln	Val	Trp	Xaa	Arg	Lys	Asp	Gln	
				420					425					430		
Glu	Trp	Ala	His	Trp	Val											
				435												

<223> Xaa equals any of the naturally occurring L-amino acids

4627

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5159

Asp	Pro	Leu	Val	Leu	Glu	Arg	Arg	Ser	Gly	Asp	Arg	Asp	Leu	Glu	Pro
1				5					10				15		

Asp	Trp	Leu	Ala	Gln	Leu	Arg	Arg	Gln	Leu	Glu	Gln	Lys	Val	Ala	Gly
		20						25					30		

Asp	Ile	Gly	Asp	Pro	His	Pro	Thr	Arg	Ser	Asp	Ile	Ser	Gly	Ala	Gly
		35					40					45			

Gly	Thr	Thr	Thr	Glu	Asn	Thr	Phe	Tyr	Gln	Asp	Phe	Ser	Gly	Cys	Gln
	50					55					60				

Gly	Tyr	Ser	Glu	Ala	Pro	Gly	Tyr	Arg	Ser	Ala	Leu	Trp	Leu	Thr	Pro
65					70					75					80

Glu	Gln	Thr	Cys	Leu	Leu	Gln	Pro	Ser	Pro	Gln	Gln	Pro	Phe	Pro	Leu
				85					90					95	

Gln	Pro	Gly	Ser	Tyr	Pro	Ala	Gly	Gly	Gly	Ala	Gly	Gln	Thr	Gly	Thr
		100						105					110		

Pro	Arg	Pro	Phe	Tyr	Ser	Val	Pro	Glu	Thr	His	Leu	Pro	Gly	Thr	Gly
		115					120					125			

Ser	Ser	Val	Ala	Val	Thr	Glu	Ala	Thr	Gly	Gly	Thr	Val	Trp	Glu	Glu
	130					135					140				

Met	Leu	Gln	Thr	His	Leu	Gly	Pro	Gly	Xaa	Asn	Thr	Val	Ser	Gln	Glu
145					150					155					160

Thr	Ser	Gln	Pro	Pro	Asp	Gly	Gln	Glu	Val	Ile	Ser	Lys	Pro	Gln	Thr
			165						170					175	

Pro	Leu	Ala	Ala	Xaa	Pro	Arg	Xaa	Phe	Leu	Arg	Val	Pro	Pro	Val	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4628

	180		185		190	
Pro	Arg	Arg	Met	Arg	Arg	Ser
	195					200
Pro	Leu	Met	Arg	Leu	Ile	Lys
						205
Pro	Glu	Ile	Leu	Pro	Arg	Glu
	210					215
Ala	Ser	Ser	Glu	Met	Gly	Arg
						220
Gln	Arg	Ala	Gln	Gly	Leu	Ala
	225					230
Gly	Ser	Ala	Gly	Phe	Asp	Arg
						235
Ser	Pro					
						240
Pro	Arg	Thr	His	Pro	Pro	Leu
						245
Glu	Thr	Arg	Thr	Pro	Gln	Thr
						250
Ala	Leu					
						255
Thr	Leu	Arg	Arg	Pro	Pro	Glu
						260
His	Xaa	Leu	Pro	Thr	Arg	Leu
						265
Ala	Trp					
						270
Ala	Phe	His				
						275

<210> 5160

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5160

Leu Asp Val Asn Phe Gly Asp Thr Val Gln His Thr Pro Pro Arg Ala

1

5

10

15

4629

Pro Arg Gly Gln Ser Gly Trp Lys Ala Glu Gly Pro Ser Thr Val Glu
 20 25 30
 Ser Pro Arg Leu Arg Ser Asp Ser Leu Val Xaa Glu Val Phe Pro Gly
 35 40 45
 Leu Gly Gln Gly Pro Val Ser Pro Glu Val Pro Gly Cys Pro Pro Ser
 50 55 60
 Pro His Ser His Val Pro His Ala Gly Gln Ala Leu Leu Ser Arg Asp
 65 70 75 80
 Thr Ala Phe Met Gly Arg His Arg Pro Leu Ser Gln Glu Pro Glu Val
 85 90 95
 Gly Gly Leu Ala Ala Ser Gln Arg Arg Gly Lys Ile Pro Phe Pro Arg
 100 105 110
 Ala Phe Gly His Trp Gly Arg Pro Trp Ala Arg Gln Gln Asp Gly Phe
 115 120 125
 Xaa Thr Gly Xaa Val Ser Leu Gln Pro Arg Gly Gly Trp Phe Pro Trp
 130 135 140
 Xaa Asn
 145

<210> 5161
 <211> 163
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5161
 Val Lys Ile Glu Pro Glu Asp Leu Asp Ile Ile Gln Val Thr Val Pro
 1 5 10 15
 Asp Pro Ser Pro Thr Ser Glu Glu Met Thr Asp Ser Met Pro Gly His
 20 25 30
 Leu Pro Ser Glu Asp Ser Gly Tyr Gly Met Glu Met Leu Thr Asp Lys
 35 40 45
 Gly Leu Ser Glu Asp Ala Arg Pro Glu Xaa Arg Pro Val Glu Asp Ser
 50 55 60

4630

His Gly Asp Val Ile Arg Pro Leu Arg Lys Gln Val Glu Leu Leu Phe
 65 70 75 80
 Asn Thr Arg Tyr Ala Lys Ala Ile Gly Ile Ser Glu Pro Val Lys Val
 85 90 95
 Pro Tyr Ser Lys Phe Leu Met His Pro Glu Glu Leu Phe Val Val Gly
 100 105 110
 Leu Pro Glu Gly Ile Ser Leu Arg Arg Pro Asn Cys Phe Gly Ile Ala
 115 120 125
 Lys Leu Arg Lys Ile Leu Glu Ala Ser Asn Ser Ile Gln Phe Val Ile
 130 135 140
 Lys Arg Pro Glu Leu Leu Thr Glu Glu Ser Lys Ser Pro Ser Trp Ile
 145 150 155 160
 Val Asn Glu

<210> 5162

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5162

Lys Pro Thr Cys Asn Glu Leu Ile Lys Thr Ile Ile Ile Gln His Glu
 1 5 10 15

Asn Ile Phe Pro Ser Pro Arg Xaa Leu Glu Gly Pro Val Tyr Ser Arg
 20 25 30

Gly Gly Ser Met Glu Asp Tyr Cys Asp Ser Pro His Gly Glu Thr Thr
 35 40 45

Ser Val Glu Asp Ser Thr Gln Asp Val Thr Ala Glu His His Thr Ser
 50 55 60

Asp Asp Glu Cys Glu Pro Ile Glu Ala Ile Ala Lys Phe Asp Tyr Val
 65 70 75 80

Gly Arg Thr Ala Arg Glu Leu Ser Phe Lys Lys Gly Ala Ser Leu Leu

4631

				85				90				95			
Leu	Tyr	Gln	Arg	Ala	Ser	Asp	Asp	Trp	Trp	Glu	Gly	Arg	His	Asn	Gly
100				105				110							
Ile	Asp	Gly	Leu	Ile	Pro	His	Gln	Tyr	Ile	Val	Val	Gln	Asp	Thr	Glu
115				120				125							
Asp	Gly	Val	Val	Glu	Arg	Ser	Ser	Pro	Lys	Ser	Glu	Ile	Glu	Val	Ile
130				135				140							
Ser	Glu	Pro	Pro	Glu	Glu	Lys	Val	Thr	Ala	Arg	Ala	Gly	Ala	Ser	Cys
145				150				155				160			
Pro	Ser	Gly	Gly	His	Val	Ala	Arg	Tyr	Leu	Ser	Cys	Lys	His	Gln	Gln
165				170				175							
Ala	Lys	Glu	Ala	Ser	Arg	Ile	Trp	Glu	Ala	Ser	Glu	Asn	Phe	Ser	Glu
180				185				190							

<210> 5163

<211> 319

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5163

Ala Arg Ala Arg Ala Glu Phe Gly Thr Ser Ser Thr Asn Leu His Leu
1 5 10 15

Glu Ser Glu Leu Asp Ala Leu Ala Ser Leu Glu Asn His Val Lys Thr
20 25 30

4632

Glu Pro Ala Asp Met Asn Glu Ser Cys Lys Gln Ser Gly Xaa Ser Ser
 35 40 45

Leu Val Asn Gly Xaa Ser Pro Ile Arg Ser Leu Met His Arg Ser Ala
 50 55 60

Arg Ile Gly Gly Xaa Gly Asn Asn Lys Asp Asp Asp Pro Asn Glu Asp
 65 70 75 80

Trp Cys Ala Val Cys Gln Asn Gly Gly Asp Leu Leu Cys Cys Glu Lys
 85 90 95

Cys Pro Lys Val Phe His Leu Thr Cys His Val Pro Thr Leu Leu Ser
 100 105 110

Phe Pro Ser Gly Asp Trp Ile Cys Thr Phe Cys Arg Asp Ile Gly Lys
 115 120 125

Pro Glu Val Glu Tyr Asp Cys Asp Asn Leu Gln His Ser Lys Lys Gly
 130 135 140

Lys Thr Ala Gln Gly Leu Ser Pro Val Asp Gln Arg Lys Cys Glu Arg
 145 150 155 160

Leu Leu Leu Tyr Leu Tyr Cys His Glu Leu Ser Ile Glu Phe Gln Glu
 165 170 175

Pro Val Pro Ala Ser Ile Pro Asn Tyr Tyr Lys Ile Ile Lys Lys Pro
 180 185 190

Met Asp Leu Ser Thr Val Lys Lys Lys Leu Gln Lys Lys His Ser Gln
 195 200 205

His Tyr Gln Ile Pro Asp Asp Phe Val Ala Asp Val Arg Leu Ile Phe
 210 215 220

Lys Asn Cys Glu Arg Phe Asn Glu Met Met Lys Val Val Gln Val Tyr
 225 230 235 240

Ala Asp Thr Gln Glu Ile Asn Leu Lys Ala Asp Ser Glu Val Ala Gln
 245 250 255

Ala Gly Lys Ala Val Ala Leu Tyr Phe Glu Asp Lys Leu Thr Glu Ile
 260 265 270

Tyr Ser Asp Arg Thr Phe Ala Pro Leu Pro Glu Phe Glu Gln Glu Glu
 275 280 285

Asp Asp Gly Glu Val Thr Glu Asp Ser Asp Glu Asp Phe Ile Gln Pro
 290 295 300

4633

Arg Arg Lys Arg Leu Lys Ser Asp Glu Arg Pro Val His Ile Lys
 305 310 315

<210> 5164

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5164

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Xaa Gly Arg Ser Arg Thr
 1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Thr Ser Gly Xaa
 20 25 30

Gly Asn Arg Ala Ala Asn Glu Glu Glu Thr Xaa Asn Lys Pro Lys Leu
 35 40 45

Asn Ile Gln Ile Lys Thr Leu Ala Asp Asp Val Arg Asp Arg Ile Thr
 50 55 60

Ser Phe Arg Lys Ser Thr Val Lys Lys Glu Lys Pro Leu Ile Gln His
 65 70 75 80

Pro Ile Asp Ser Gln Val Ala Met Ser Glu Phe Pro Ala Ala Gln Pro
 85 90 95

Leu Tyr Asp Glu Arg Ser Leu Asn Leu Ser Glu Lys Glu Val Leu Asp
 100 105 110

Leu Phe Glu Lys Met Met Glu Asp Met Asn Leu Asn Glu Glu Lys Lys
 115 120 125

4634

Ala Pro Leu Arg Asn Lys Asp Phe Thr Thr Lys Arg Glu Met Val Val
 130 135 140

Gln Tyr Ile Ser Ala Thr Ala Lys Ser Ile Val Gly Ser Lys Val Thr
 145 150 155 160

Gly Gly Leu Lys Asn Ser Lys His Glu Cys Thr Leu Ser Ser Gln Glu
 165 170 175

Tyr Val His Glu Leu Arg Ser Gly Ile Phe Arg
 180 185

<210> 5165

<211> 266

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5165

Thr His Thr Gly Glu Lys Ser Tyr Val Cys Ser Val Cys Gly Arg Gly
 1 5 10 15

Phe Ser Leu Lys Ala Asn Leu Leu Arg His Gln Arg Thr His Ser Gly
 20 25 30

Glu Lys Pro Phe Leu Cys Lys Val Cys Gly Arg Gly Tyr Thr Ser Lys
 35 40 45

Ser Tyr Leu Thr Val His Glu Arg Thr His Thr Gly Glu Lys Pro Tyr
 50 55 60

Glu Cys Gln Glu Cys Gly Arg Arg Phe Asn Asp Lys Ser Ser Tyr Asn
 65 70 75 80

Lys His Leu Lys Ala His Ser Gly Glu Lys Pro Phe Val Cys Lys Glu
 85 90 95

Cys Gly Arg Gly Tyr Thr Asn Lys Ser Tyr Phe Val Val His Lys Arg
 100 105 110

4635

Ile His Ser Gly Glu Lys Pro Tyr Arg Cys Gln Glu Cys Gly Arg Gly
 115 120 125
 Phe Ser Asn Lys Ser His Leu Ile Thr His Gln Arg Thr His Ser Gly
 130 135 140
 Glu Lys Pro Phe Ala Cys Arg Gln Cys Lys Gln Ser Phe Ser Val Lys
 145 150 155 160
 Gly Ser Leu Leu Arg His Gln Arg Thr His Ser Gly Glu Lys Pro Phe
 165 170 175
 Val Cys Lys Asp Cys Glu Arg Ser Phe Ser Gln Lys Ser Thr Leu Val
 180 185 190
 Tyr His Gln Arg Thr His Ser Gly Glu Lys Pro Phe Val Cys Arg Xaa
 195 200 205
 Met Trp Ala Arg Ile Tyr Ser Glu Val Asn Pro Trp Glu Thr Xaa Asp
 210 215 220
 His Thr Leu Arg Gly Glu Ala Phe Cys Val Gln Gly Cys Gly Gln Ala
 225 230 235 240
 Leu Ser Lys Ser Gln Leu His Phe His Gln Arg Thr His Ser Glu Glu
 245 250 255
 Lys Pro Tyr Gly Cys Arg Glu Cys Gly Arg
 260 265

<210> 5166

<211> 128

<212> PRT

<213> Homo sapiens

<400> 5166

Leu Phe Met Ser Leu Leu Glu Asp Thr Leu Ser Lys Gln Lys Asn Pro
 1 5 10 15
 Asp Val Arg Asn Ile Val Gln Gln Gln Phe Cys Gly Glu Tyr Ala Tyr
 20 25 30
 Val Thr Val Cys Asn Gln Cys Gly Arg Glu Ser Lys Leu Leu Ser Lys
 35 40 45
 Phe Tyr Glu Leu Glu Leu Asn Ile Gln Gly His Lys Gln Leu Thr Asp
 50 55 60
 Cys Ile Ser Glu Phe Leu Lys Glu Glu Lys Leu Glu Gly Asp Asn Arg

4636

65		70		75		80									
Tyr	Phe	Cys	Glu	Asn	Cys	Gln	Ser	Lys	Gln	Asn	Ala	Thr	Arg	Lys	Ile
				85					90					95	
Arg	Leu	Leu	Ser	Leu	Pro	Cys	Thr	Leu	Asn	Leu	Gln	Leu	Met	Arg	Phe
			100					105					110		
Val	Phe	Asp	Arg	Gln	Thr	Gly	His	Lys	Lys	Lys	Leu	Asn	Thr	Tyr	Ile
		115					120					125			

<210> 5167

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5167

Ala	Gly	Gly	Gln	Arg	Gly	Gly	Ala	Glu	Ser	Glu	Arg	Gln	His	Leu	Gln
1				5					10					15	

Gln	Arg	Val	Leu	Gly	Glu	Leu	Cys	Ser	Arg	Asn	Thr	Gly	Gly	Asp	Ala
			20					25					30		

Ala	Gly	Ala	Gln	Arg	Glu	Asn	Ala	Thr	Arg	Arg	Thr	Ala	Gly	Thr	Leu
		35					40					45			

Ser	Leu	Glu	Ala	Ser	Gln	Ala	Leu	Lys	Glu	Lys	Ala	Glu	Leu	Gln	Ala
	50					55					60				

Gln	Leu	Ala	Ala	Leu	Ser	Thr	Lys	Leu	Gln	Ala	Gln	Val	Glu	Cys	Ser
65					70					75					80

4637

His Ser Ser Gln Gln Arg Gln Asp Ser Leu Ser Ser Glu Val Asp Thr
 85 90 95

Leu Lys Gln Ser Cys Trp Asp Xaa Glu Arg Ala Met Xaa Asp Leu Ala
 100 105 110

Glu His Ala Gly Xaa Lys Lys Cys Gln Leu Ala Ser Phe Gln Gln Arg
 115 120 125

<210> 5168

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5168

Asn Leu Thr Asn Val Met Tyr Val Thr Asn Pro Ser Gly Met Val Pro
 1 5 10 15

Pro Leu Leu Tyr Ile Lys Gly Phe Ile Pro Glu Lys Asn His Met Asn
 20 25 30

Val Met Phe Ala Glu Lys Pro Ser Ala Ile Met His His Ser Leu Asn
 35 40 45

Ile Lys Glu Tyr Ile Leu Glu Lys Ser Leu Leu Ser Lys Glu Cys Gly
 50 55 60

Lys Ala Phe Arg Gln Asn Ile His Leu Ala Ser His Leu Arg Ile His
 65 70 75 80

Thr	Gly	Glu	Lys	Pro	Phe	Glu	Cys	Xaa	Glu	Cys	Gly	Lys	Ser	Phe	Ser
				85					90					95	
Ile	Ser	Ser	Gln	Leu	Ala	Thr	His	Gln	Arg	Ile	His	Thr	Xaa	Glu	Lys
			100					105					110		
Pro	Tyr	Glu	Cys	Lys	Val	Cys	Ser	Lys	Ala	Phe	Thr	Gln	Lys	Val	Xaa
		115					120					125			
Leu	His	Ser	Ser	Glu	Asn	Pro	Thr	Gly	Glu	Glu	Thr	Leu			
	130					135					140				

Asn Thr Arg Asp Glu Asp Glu Xaa Thr Pro Leu His Arg Ala Ala Tyr
20 25 30

4639

Ser Gly His Leu Asp Ile Val Gln Glu Leu Ile Ala Gln Gly Ala Asp
 35 40 45
 Val His Ala Val Thr Val Asp Gly Trp Thr Pro Leu His Ser Ala Cys
 50 55 60
 Lys Trp Asn Asn Thr Arg Val Ala Ser Phe Leu Leu Gln His Asp Ala
 65 70 75 80
 Asp Ile Asn Ala Gln Thr Lys Gly Leu Leu Thr Pro Leu His Leu Ala
 85 90 95
 Ala Gly Asn Arg Asp Ser Lys Asp Thr Leu Glu Leu Leu Leu Met Asn
 100 105 110
 Arg Tyr Val Lys Pro Gly Leu Lys Asn Asn Leu Glu Glu Thr Ala Phe
 115 120 125
 Asp Ile Ala Arg Arg Thr Ser Ile Tyr His Tyr Leu Phe Glu Ile Val
 130 135 140
 Glu Gly Cys Thr Asn Ser Ser Pro Gln Ser
 145 150

<210> 5171

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

4640

<400> 5171

Thr Xaa Gly Leu Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro
1 5 10 15
Gly Arg Pro Thr Arg Pro Xaa Lys Xaa Met Glu Lys Asp Pro Ser Arg
20 25 30
Leu Leu Leu Trp Ala Ala Glu Lys Asn Arg Val Lys Lys Lys Ile Thr
35 40 45
Glu Gly Ser Val Thr Val Gly Lys Ala Leu Gly Ser Ser Gln Lys Thr
50 55 60
Cys Leu Tyr Cys Tyr Gly His His Thr Tyr Leu Leu Ile Val Arg Thr
65 70 75 80

Lys

<210> 5172

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5172

Met Cys Thr Arg Ser Leu Thr Ala Leu Ser Glu Pro Arg Thr Pro Gly
1 5 10 15
Pro Pro Gly Leu Thr Thr Thr Pro Ala Pro Pro Asp Lys Leu Gly Gly
20 25 30
Lys Gln Arg Ala Ala Phe Lys Ser Gly Lys Arg Val Gly Lys Pro Ser
35 40 45
Pro Lys Ala Ala
50

<210> 5173

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

4641

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5173

Ala	Cys	Ala	Pro	Gly	Ser	Arg	Arg	Leu	Leu	Ser	Ala	Glu	Gln	Pro	Phe
1				5					10					15	

Gly	His	Pro	Leu	Pro	Leu	Lys	Ile	Cys	Arg	Leu	Arg	Leu	Leu	Ser	Ala
			20					25					30		

Gly	Ala	Arg	Pro	Ser	Arg	Pro	Gly	Ala	Gly	Arg	Ala	Leu	Ala	Cys	His
			35				40					45			

Ala	Ala	Arg	Cys	Xaa	Gln	Pro	Gly	Arg	Trp	Gly	Arg	Ala	Val	His	Arg
			50			55					60				

Ala	Arg	Arg	Ala	Arg	Leu	Gly	Ala	Gly	Thr	Glu	Pro	Pro	Trp	Glu	Val
65					70					75				80	

Pro	Arg	Gln	Leu	Arg	Cys	Ser	Pro	Trp	Leu	Gln	Pro	Ser	Pro	Ala	Ala
				85					90					95	

Xaa	Leu	Ala	Glu	Gln	Xaa	Arg	His	Trp	Ala	Pro	Pro
			100					105			

<210> 5174

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5174

Pro	Arg	Phe	Ala	Arg	Ile	Leu	Leu	Met	Asp	Leu	Ser	Val	Thr	Pro	Val
1				5					10					15	

Arg	Gly	His	Leu	Ser	His	Pro	Val	Pro	Glu	Cys	Ser	Pro	His	Pro	His
			20					25					30		

Leu	Trp	Ser	Arg	Glu	Val	Phe	Ala	Pro	Arg	Ile	Cys	Pro	Glu	Leu	Gly
			35				40					45			

His	Gln	Pro	Leu	Gln	Val	Trp	Val	Leu	Leu	Gln	Asp	Cys	Val	Glu	Leu
			50			55					60				

4642

Phe Leu Leu Lys Asn Phe Pro Gly Asp Asp His Ser Ala Trp Ser Leu
65 70 75 80

Gly Trp Ser Leu Val
85

<210> 5175

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5175

Ser Gln Val Met Gly Thr Glu Arg Phe Ile Val Leu Phe Leu Phe Leu
1 5 10 15

Leu Tyr Gly Ser Ser Gln Ser Phe Asn Ser Met Ala Gln Val Thr Gln
20 25 30

Ser Arg Val Leu Arg Ala Cys Gly Leu Trp Gln His His Pro Gln Thr
35 40 45

Asp Thr Ala Glu Glu Pro Gly Ala Val Ser Cys Arg Cys Ala Trp Leu
50 55 60

Gly Thr Glu Trp Lys Ala Leu Gly Arg Ile Phe Ile Glu Val
65 70 75

<210> 5176

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4643

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5176

Leu	Ser	Thr	Lys	Ile	Tyr	Arg	Ser	Xaa	Ser	Ala	Met	Tyr	Ser	Arg	Thr
1				5				10						15	

Cys	Gln	Arg	Asn	Ser	Lys	Val	Phe	Ala	Thr	Val	Ser	Ser	Pro	Ala	Ala
			20					25					30		

Ile	Xaa	Asp	Asn	Ser	Pro	Ala	Xaa	Xaa	Asn	Val	Val	Glu	Thr	Asn	Pro
		35					40					45			

Phe	Lys	His	Leu	Thr	His	Leu	Ser	Leu	Lys	Leu	Leu	Pro	Gly	Asn	Asp
	50					55					60				

Val	Glu	Ile	Lys	Lys	Phe	Leu	Ala	Gly	Cys	Leu	Lys	Cys	Ser	Lys	Glu
65					70					75					80

Glu	Lys	Leu	Ser	Leu	Met	Gln	Ser	Leu	Asp	Asp	Ala	Thr	Lys	Gln	Leu
				85					90					95	

Asp	Phe	Thr	Arg	Lys	Thr	Leu	Ala	Glu	Lys	Lys	Gln	Glu	Leu	Asp	Lys
			100					105					110		

Leu	Arg	Asn	Glu	Trp	Ala	Ser	His	Thr	Ala	Ala	Leu	Thr	Asn	Lys	His
		115					120					125			

Ser	Gln	Glu	Leu
130			

<210> 5177

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5177

Pro	Ala	Gln	Leu	Leu	Tyr	Glu	Leu	Ala	Lys	Leu	Ala	Gln	Val	Asn	Val
1				5					10					15	

Glu	Phe	Ser	Ala	Arg	Gln	Leu	Leu	Ile	Arg	Thr	Gly	Arg	Asp	Gly	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4644

20 25 30
 Tyr Thr Thr Thr Gly Asp Asn Ser Arg Leu Cys Arg Lys Phe Gln Asp
 35 40 45
 Leu Gly Ser Arg Thr Met His Asp Thr Gln Ser Xaa Ile Ala Gly Gly
 50 55 60
 Arg Ala Thr Val Lys Arg Pro Lys Ser Ile Lys Met Cys
 65 70 75

<210> 5178

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5178

Phe Gly Thr Ser Arg Arg Arg Xaa Ala Lys Xaa Thr Leu Tyr Cys Arg
 1 5 10 15

Val Phe Leu Leu Asp Gly Thr Glu Val Ser Val Asp Leu Pro Lys His
 20 25 30

Ala Lys Gly Gln Asp Leu Phe Asp Gln Ile Val Tyr His Leu Asp Leu
 35 40 45

Val Glu Thr Asp Tyr Phe Gly Leu Gln Phe Leu Asp Ser Ala Gln Val
 50 55 60

Ala His Trp Leu Asp His Ala Lys Pro Ile Lys Lys Gln Met Lys Ile
 65 70 75 80

Gly Pro Ala Tyr Ala Leu His Phe Arg Val Lys Tyr Tyr Ser Ser Glu
 85 90 95

Pro Asn Asn Leu Arg Glu Glu Phe Thr Arg Tyr Leu Phe Val Leu Gln
 100 105 110

Leu Arg His Asp Ile Leu Ser Gly Lys Leu Lys Cys Pro Tyr Glu Thr

4645

115	120	125
Ala Val Glu Leu Ala Ala Leu Cys Leu Gln Ala Asp Phe Val		
130	135	140

<210> 5179

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5179

Arg Arg His Leu Glu Ile Lys Xaa Leu Ile Met Leu Gln Tyr Cys Ile
1 5 10 15

Tyr Phe Ser Leu Tyr Thr Val Phe Phe Phe Val Ser Pro Glu Thr Ser
20 25 30

Phe Pro Phe Arg Phe Phe Ser Cys Ser Ile Lys Leu Ile Tyr Ile Ser
35 40 45

Thr Tyr Ser Asn Gly Val Leu Val Phe Val Ser
50 55

<210> 5180

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

4646

<400> 5180

Leu Pro Leu Arg Asn Lys Ile Leu Met Leu Ser Phe Asp Leu Arg Val
1 5 10 15

Gly Gly Leu Gly Pro Lys Ala Asp Arg Leu Glu Glu Leu Val Glu Glu
20 25 30

Leu Glu Ala Ala Pro Cys Cys Pro Leu Leu Glu Val Gly Ser Val Leu
35 40 45

Asp Leu Leu Val Gln Leu Ala Gly Ser Gly Pro Pro Gln Val Leu Pro
50 55 60

Arg Lys Arg Asp Tyr Phe Leu Asn Asn Lys His Val Gly Arg Asn Val
65 70 75 80

Pro Tyr Ser Gly Tyr Asp Cys Asp Asp Leu Xaa Val Phe Glu Met Asp
85 90 95

Val Gln Ser Leu Ile Xaa Arg Xaa Glu
100 105

<210> 5181

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5181

4647

Val Lys Ile Asn Arg Lys Thr Ala Phe Gly Thr Thr Thr Leu Val Leu
 1 5 10 15
 Thr Asp Phe Ser Asn Lys Ser Ser Thr Leu Glu Arg Lys Thr Lys Gln
 20 25 30
 Asn Gln Ile Leu Asp Glu Glu Phe Gln Asn Ser Pro Pro Ala Ser Val
 35 40 45
 Cys Leu Asn Asp Ile Gln Xaa Pro Ser Lys Lys Thr Thr Asn Asp Ile
 50 55 60
 Thr Gln Leu Xaa Ser Ile Val Asn Ile Ser Pro Thr Ile Ser Ser Glu
 65 70 75 80
 Ser Lys Leu Phe Ser Pro Ala His Lys Lys Pro Lys Thr Ala His Tyr
 85 90 95
 Ser Ser Pro Glu Leu Lys Ser Cys Asn Pro Gly Tyr Ser Asn Ser Glu
 100 105 110
 Leu Gln Ile Asn Met Thr Asp Gly Pro Arg Thr Leu Asn Pro Asp Ser
 115 120 125
 Pro Arg Cys Ser Lys His Asn Arg Leu Cys Ile Leu Arg Val Val Arg
 130 135 140
 Lys Asp Gly Glu Asn Lys Gly Arg Ala Val Leu Cys Leu Ser Ser Tyr
 145 150 155 160
 Leu Gly Gly Arg His Asn Val Gly Phe Phe Trp Asn Gly Ala Asp Phe
 165 170 175
 Val Pro Phe Pro Phe Trp Gln Pro Gly Ala Arg Arg Phe Pro Pro Trp
 180 185 190
 Lys Thr Val Xaa Gly Arg Phe Gly Thr Leu Thr Leu Gly Lys Gly Phe
 195 200 205
 Phe Phe Cys Cys Gly Xaa Leu Trp Gly
 210 215

<210> 5182

<211> 150

<212> PRT

<213> Homo sapiens

<400> 5182

Asn Ile Pro Gly Ser Gly His His Ala Phe Cys Lys Pro Pro Trp Gly

4648

1 5 10 15
 Ala Ala Glu Leu Asp Met Gly Arg Arg Asp Ala Gln Leu Leu Ala Ala
 20 25 30
 Leu Leu Val Leu Gly Leu Cys Ala Leu Ala Gly Ser Glu Lys Pro Ser
 35 40 45
 Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg Thr Asn Cys Gly
 50 55 60
 Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn Gly Cys Cys Phe
 65 70 75 80
 Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His Pro Leu Pro Lys
 85 90 95
 Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp Arg Arg Asn Cys
 100 105 110
 Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser Arg Lys Cys Cys
 115 120 125
 Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe Phe Pro Lys Ser
 130 135 140
 Val Glu Asp Cys His Tyr
 145 150

<210> 5183

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5183

Asn Ser Met Thr Lys Gly Leu Ile Gln Gly Glu Lys Gly Tyr Met Lys
 1 5 10 15
 Thr His Ser Ser Leu Phe Tyr Ser Leu Pro Trp Leu Glu Ile Asn Arg
 20 25 30
 His Ile Val Leu Phe Ile Met Gly Arg Lys Val Gly Lys Asp His Leu
 35 40 45
 Ser Ala Tyr Gly Val Leu Ala Leu Ala His Gly Glu
 50 55 60

4649

<210> 5184

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5184

Leu Ala Ile Asp Ser Thr Gly Leu Lys His Thr Ile Lys Cys Ile His
1 5 10 15

Asp Ile Val His Thr Gln Lys Pro Pro Leu Ile Ile Glu Ile Thr Cys
20 25 30

Ile Leu Phe Gly Asn His Leu Ser Leu Val Leu Lys Tyr Tyr Ile Phe
35 40 45

Cys Ala Ser Met Tyr Phe Ser Ile Tyr Lys Pro Met
50 55 60

<210> 5185

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5185

Leu Gln Phe Ile Lys Leu Ile Thr Arg Gln Asn Tyr Ile Phe Lys Met
1 5 10 15

Ser Lys Gly Leu Asn His Glu Lys Asn Ser Ser Thr Leu Leu Pro Asn
20 25 30

Tyr Cys Phe Gln Asp Ser Gln Ser Met Leu Tyr Ile His Leu Tyr Phe
35 40 45

Ser Leu Tyr Ile
50

<210> 5186

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5186

4650

Tyr Cys Tyr Ser Arg Thr Val Leu Ile Val Cys Ile Leu Lys Arg Cys
 1 5 10 15
 Asp Ser Gly Leu Ile Phe Ile Ser Val Ile Leu Lys Gly Trp Val Trp
 20 25 30
 Phe Tyr Arg Val Phe Cys Ile Leu Val Gly Ile His Lys Tyr Gln Met
 35 40 45
 Cys Cys Ile Ile Lys Ile Thr Leu Thr Phe Xaa Lys Lys Lys Lys Lys
 50 55 60
 Lys Lys Lys Lys Lys
 65

<210> 5187

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5187

His Glu Leu Thr Arg Asn Gly Gly Gly Gly Gly Ala Ala Leu Gly Gly
 1 5 10 15

4651

Glu Glu Gly Ala Ala Thr Arg Pro Arg Ala Ala Pro Gly Pro Gly Leu
 20 25 30
 Arg Met Glu Pro Phe Arg Arg Arg Leu Tyr Ala Gly Pro Gln Arg Arg
 35 40 45
 Pro Thr Arg Ala Asp Pro Arg His Pro Arg Phe Lys Glu Pro Ser Pro
 50 55 60
 Gly Leu Gly Pro Trp Pro Leu Thr Arg Gln Gly Thr Ala Leu Gly Gly
 65 70 75 80
 Leu Val Cys Arg Gly Xaa Pro Ala Ala Xaa Xaa His Gly Tyr Leu Ala
 85 90 95
 Lys Lys Leu His Ser Pro Ser Asp Gln Phe Pro Pro Arg Ala Lys Asn
 100 105 110
 Pro Glu Leu Glu Xaa Asn Ser Leu Xaa Phe Leu
 115 120

<210> 5188

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5188

Lys Cys Tyr Ile Leu Leu Gly Tyr Arg Gly Ala Gly Glu Thr Ala Glu
 1 5 10 15
 Glu Arg Lys Asn Met Trp Lys Thr Pro Arg Ser Ser Lys Phe Tyr Pro
 20 25 30
 Glu Phe Tyr Leu Pro Cys Met Phe Cys Leu Arg His Phe Ser Cys Asp
 35 40 45
 Ile Arg Lys Ala Ile Ser Lys Gly Xaa Phe Phe Val Ala Lys Ile Tyr
 50 55 60
 Phe Thr Leu
 65

4652

<210> 5189

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5189

Pro	Leu	Pro	Asn	Ser	Pro	Ala	Tyr	Phe	Tyr	Ala	Thr	Phe	Pro	Phe	Thr
1				5					10					15	

Leu	Tyr	Ser	Leu	Ala	Ile	Phe	Asp	Ser	Ser	His	Phe	Leu	Thr	Pro	Val
			20					25					30		

Phe	Ser	Gln	Tyr	Asn	Val	His	Thr	Phe	Ile	Thr	Leu	Ile	Pro	Leu	Tyr
		35					40					45			

Cys	Ile	Leu	Trp	Phe	Ala	Phe	Pro	His
	50					55		

<210> 5190

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5190

Leu	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu
1				5					10					15	

Arg	Pro	Pro	Pro	Arg	Trp	Ser	Ser	Ser	Phe	Val	Pro	Leu	Val	Arg	Xaa
			20					25					30		

Gly	Val	Ala
		35

<210> 5191

<211> 19

<212> PRT

<213> Homo sapiens

<400> 5191

Leu	Ile	Lys	Leu	Thr	Ser	Lys	Gln	Met	Ile	Thr	Ile	His	Asn	Thr	Lys
1				5					10					15	

4653

Gly Arg Thr

<210> 5192

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5192

Ile	Phe	Leu	Glu	Gly	Phe	His	Glu	Ile	Ser	Pro	Ser	His	Ile	Ser	Ser
1				5				10					15		

Val	Gln	Tyr	Lys	Met	Gln	Lys	Cys	Leu	Leu	Xaa	Lys	Thr	Gly	Asp	Leu
			20					25					30		

Ile	Thr	Thr	Thr	Leu	Gly	Ile	Ser	Gln	Leu	Pro	Leu	Gly	Thr	Gln	Pro
			35				40					45			

Pro	Xaa	Val	Glu	Thr	Cys	Leu	Asp	Trp	His	Ser	Gly	Ser	Thr
	50					55					60		

<210> 5193

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4654

<221> SITE
 <222> (174)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (228)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (273)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (281)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5193
 Leu Pro Gln Arg Cys His Gly Val Leu Arg Arg Arg Lys Asp Trp Asn
 1 5 10 15
 Val Arg Leu Gln Ala Phe Phe Thr Ser Asp Thr Gly Leu Glu Tyr Glu
 20 25 30
 Ala Pro Lys Leu Tyr Pro Ala Ile Pro Ala Ala Arg Arg Arg Pro Ile
 35 40 45
 Arg Val Leu Ser Leu Phe Asp Gly Ile Ala Thr Gly Tyr Leu Val Leu
 50 55 60
 Lys Glu Leu Gly Ile Lys Val Gly Lys Tyr Val Ala Ser Glu Val Cys
 65 70 75 80
 Glu Glu Ser Ile Ala Val Gly Thr Val Lys His Glu Gly Asn Ile Lys
 85 90 95
 Tyr Val Asn Asp Val Arg Asn Ile Thr Lys Lys Asn Ile Glu Glu Trp
 100 105 110
 Gly Pro Phe Asp Leu Val Ile Gly Gly Ser Pro Cys Asn Asp Leu Ser
 115 120 125
 Asn Val Asn Pro Ala Arg Lys Gly Leu Tyr Glu Gly Thr Gly Arg Leu
 130 135 140
 Phe Phe Glu Phe Tyr His Leu Leu Asn Tyr Ser Arg Pro Lys Glu Gly
 145 150 155 160
 Asp Asp Arg Pro Phe Phe Trp Met Xaa Glu Asn Val Xaa Xaa Met Lys

165

170

175

Asp Tyr Phe Ala Cys Glu
325

<213> Homo sapiens

Val Ala Ser Ser Ala Gln Thr Ser Leu Ser His Leu Gln Leu Arg Leu
50 55 60

4656

Gly Met Arg Gly Thr Asp Leu Ala Leu Thr Pro Gly Arg Phe
 65 70 75

<210> 5195

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5195

Xaa Xaa Pro Ser Leu Xaa Glu Gln Ser Trp Xaa Ser Thr Ala Val Ala
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Ala Glu Leu Asp Ile Phe Phe Lys Asn Lys Ile Arg Cys Gln Pro Ser
 35 40 45

Lys Met Phe Leu
 50

<210> 5196

<211> 37

<212> PRT

<213> Homo sapiens

4657

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5196

Val	Ile	Phe	Leu	Ala	Ser	Gly	Asn	Asp	Gly	Gly	Ala	Leu	Thr	Arg	Val
1				5					10					15	

Tyr	Cys	Gly	Met	Leu	Leu	Leu	Lys	Xaa	Arg	Arg	Glu	Leu	Ala	Arg	Arg
			20					25						30	

Arg	Gly	Ser	Arg	Leu
				35

<210> 5197

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5197

Asp	Ala	Asp	His	Leu	Leu	Gln	Asn	Ser	Tyr	Leu	Glu	Gln	Phe	Lys	Leu
1				5					10					15	

Leu	Val	Pro	Val	Asn	Lys	Asn	Thr	Asp	Gln	Asn	Ala	Leu	His	Val	Ala
			20					25						30	

Tyr	Thr	Val	Gly	Ser	Leu	His	Ala	Val	Leu	Asp	Met	Phe	Ile	Ser	Thr
			35				40					45			

Leu	Asn	Ala	Met	Lys	Cys	Phe	Ile	Asn	Lys	Lys	Pro	Leu	Tyr	Ile	Lys
	50					55					60				

Leu	Leu
	65

<210> 5198

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5198

Cys	Glu	Ala	Cys	Thr	Gly	Lys	Ala	Pro	Arg	Ser	Gly	Gly	Ile	Pro	Glu
1				5					10					15	

Glu	Met	Pro	Glu	Leu	Lys	Asp	Cys	Gly	Trp	Gly	Lys	Arg	Ser	Pro	Ser
			20					25					30		

4658

Lys Glu Ala Val Cys Gly
35

<210> 5199

<211> 102

<212> PRT

<213> Homo sapiens

<400> 5199

Asp Val Glu Ile Val Pro Val Leu Gly Asn Tyr Phe Pro Leu Pro Gly
1 5 10 15

Tyr Gly Lys Glu Asp Val Ile Val Asn Asn Ile His His Pro Val Phe
20 25 30

Asn Val Leu Gln Gln Cys Ser Asn Leu Phe Phe Ser Phe Val Pro Thr
35 40 45

Ala Phe Val Tyr Ile Glu Asn Leu Lys Ile Ser Pro Ser Leu Leu Glu
50 55 60

Val Lys Met Phe Pro Asn Leu Leu Asn Met Pro Leu Phe Thr Ile Cys
65 70 75 80

Phe Phe Arg Leu Phe Leu Met His Tyr Arg Ile Lys Tyr Asp Phe Val
85 90 95

Tyr Phe Tyr Tyr Ser Met
100

<210> 5200

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5200

Phe Leu His His Lys Leu Tyr Leu Asn Val Gly Ala Val Ser Gly Cys
1 5 10 15

Phe Leu Pro His Gly Glu Thr Trp Ser Ala Val Arg Glu Lys Asn Glu
20 25 30

Ala Met Met Lys Ala Lys Ser Arg Lys Ser Pro Asp Cys Val Pro Val
35 40 45

Pro Gly Ser Ser Gly Leu His Val Gln Val His Leu Cys Pro Phe His

4659

50 55 60
 Val Leu Ile Val Glu Phe Phe Cys Glu Ile Leu Gln Ile Ser
 65 70 75

<210> 5201
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5201
 Ala His Xaa Ser Ala Arg His Ser Cys Pro Gly Asn Val Ala Ala Arg
 1 5 10 15
 Asn Trp Trp Val Ser Asn Asn Ile Leu Trp
 20 25

<210> 5202
 <211> 303
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (257)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5202
 Val Asn Glu Ile Met Ile Leu Glu Gly Gly Gly Val Met Asn Leu Asn
 1 5 10 15
 Pro Gly Asn Asn Leu Leu His Gln Pro Pro Ala Trp Thr Asp Ser Tyr
 20 25 30
 Ser Thr Cys Asn Val Ser Ser Gly Phe Phe Gly Gly Gln Trp His Glu
 35 40 45
 Ile His Pro Gln Tyr Trp Thr Lys Tyr Gln Val Trp Glu Trp Leu Gln
 50 55 60
 His Leu Leu Asp Thr Asn Gln Leu Asp Ala Asn Cys Ile Pro Phe Gln
 65 70 75 80

4660

Glu Phe Asp Ile Asn Gly Glu His Leu Cys Ser Met Ser Leu Gln Glu
 85 90 95
 Phe Thr Arg Ala Ala Gly Thr Ala Gly Gln Leu Leu Tyr Ser Asn Leu
 100 105 110
 Gln His Leu Lys Trp Asn Gly Gln Cys Ser Ser Asp Leu Phe Gln Ser
 115 120 125
 Thr His Asn Val Ile Val Lys Thr Glu Gln Thr Glu Pro Ser Ile Met
 130 135 140
 Asn Thr Trp Lys Asp Glu Asn Tyr Leu Tyr Asp Thr Asn Tyr Gly Ser
 145 150 155 160
 Thr Val Asp Leu Leu Asp Ser Lys Thr Phe Cys Arg Ala Gln Ile Ser
 165 170 175
 Met Thr Thr Thr Ser His Leu Pro Val Glu Ser Pro Asp Met Lys Lys
 180 185 190
 Glu Gln Asp Pro Pro Ala Lys Cys His Thr Lys Lys His Asn Pro Arg
 195 200 205
 Gly Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Leu Asn Pro Asp
 210 215 220
 Lys Asn Pro Gly Leu Ile Lys Trp Glu Asp Arg Ser Glu Gly Val Phe
 225 230 235 240
 Arg Phe Leu Lys Ser Glu Ala Val Ala Gln Leu Trp Gly Lys Lys Lys
 245 250 255
 Xaa Asn Ser Ser Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr
 260 265 270
 Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val
 275 280 285
 Tyr Lys Phe Gly Lys Asn Ala Arg Gly Trp Arg Glu Asn Glu Asn
 290 295 300

<210> 5203

<211> 113

<212> PRT

<213> Homo sapiens

<220>

4661

<221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5203
 Arg Thr Ser Ile Leu Leu Lys Arg Ala Cys Arg Xaa Xaa Ser Leu Pro
 1 5 10 15
 Pro Thr Leu Ser His Leu Arg Leu His Leu Gln Leu Ala Pro Arg Ser
 20 25 30
 Cys Gly Asp Gly Ser Pro Trp Gln Pro Pro Ala Asp Leu Ser Gly Leu
 35 40 45
 Xaa Ile Glu Glu Val Ser Lys Ser Leu Arg Phe Ile Gly Leu Ser Glu
 50 55 60
 Asp Val Ile Ser Phe Phe Val Thr Glu Lys Ile Asp Gly Asn Leu Leu
 65 70 75 80
 Val Gln Leu Thr Glu Glu Ile Leu Ser Glu Asp Phe Lys Leu Ser Lys
 85 90 95
 Leu Gln Val Lys Lys Ile Met Gln Phe Ile Asn Gly Trp Arg Pro Lys
 100 105 110

Ile

<210> 5204
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 5204
 Lys Ser Pro Thr Met Phe Leu Asn Ser Lys Cys Lys Leu Ser Ala Arg
 1 5 10 15
 Val Asp Ile His Thr Ala Cys Phe His Met Trp His Phe Tyr Val Ser

4662

	20		25		30
Cys	Trp	Val	Ile	Val	Leu
	35		40		45
Asp	Trp	Thr	Val	Lys	Tyr
					Val

<210> 5205

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5205

Ala	Pro	Thr	Met	Ala	Glu	Thr	Lys	Leu	Gln	Leu	Phe	Val	Lys	Ala	Ser
1				5				10					15		

Glu	Asp	Gly	Glu	Ser	Val	Gly	His	Cys	Pro	Ser	Tyr	Leu	Asp	Ser	Ala
	20						25					30			

Met	Gln	Glu	Lys	Glu	Phe	Lys	Tyr	Thr	Cys	Pro	His	Ser	Ala	Glu	Ile
	35					40						45			

Leu	Ala	Ala	Tyr	Arg	Pro	Xaa	Val	His	Pro	Arg
50						55				

<210> 5206

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5206

Pro	Gln	Leu	Ala	Glu	Lys	Ala	Ile	Leu	Lys	Thr	Phe	Pro	Thr	Ala	Tyr
1				5				10					15		

Leu	Cys	Glu	Val	Asn	Leu	Leu	Gln	Gln	Lys	Ser	Leu	Asp	Val	Glu	Ala
	20						25					30			

Ala	Val	Arg	Ile	Gln	Leu	Phe	Ile	Ile	Thr	Arg	Tyr
	35					40					

<210> 5207

<211> 49

4663

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5207

Asp	Ser	Lys	Leu	Glu	Gly	Phe	Glu	Glu	Lys	Glu	Val	Glu	Val	Phe	Cys
1				5					10					15	

Lys	Arg	Thr	Leu	Ile	Leu	Leu	Leu	Glu	Ala	Val	Xaa	Arg	Ala	Leu	Arg
			20					25					30		

Val	Glu	Asn	Xaa	Ser	Ala	Leu	Lys	Gly	Arg	His	Glu	Lys	Gln	Gln	His
		35					40					45			

Gln

<210> 5208

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5208

Lys	Gln	Lys	Arg	Val	Pro	Val	Lys	Trp	Ile	Lys	Gln	Thr	Gly	Lys	Asp
1				5					10					15	

Glu	Ala	Cys	Xaa	Ala	Gly	Gly	Ala	Glu	Ser	Gln	Pro	Ala	Ser	Ser	Val
			20					25					30		

Val	Ile	Leu	Leu	Asn	Leu	Tyr	Gln	Ser	Phe	Gln	Asn	Arg	Gly	Gly	Met
		35					40					45			

Asp	Leu	Pro	Leu	Cys	Asp	Ala	Arg	Ser	Gln	Arg	Trp	Asp	Ser	Val	Ile
	50					55					60				

4664

Gly Leu Cys
65

<210> 5209
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5209
Arg Glu Lys His Arg Trp Val Ser Pro Arg His Ser Ser Leu Gln Arg
1 5 10 15
Cys Leu His Arg Ala Asn Pro Ala Phe Leu Lys Gly Ala Phe Pro His
20 25 30
Leu Met Cys Leu Ser Ala Ser Phe Phe Arg Gln Glu Phe Lys Ser Ile
35 40 45
Phe Lys Ile Asp Arg Phe Trp Cys Ser Phe Ala Ser Phe Arg Gly Arg
50 55 60
Leu Ser Pro Ala Ser Gly Ile His Pro His Val Gly Thr Arg Ser Ala
65 70 75 80
Ala Gly Ser His Val Tyr Glu Met Leu Val Val Phe Phe Phe Phe Ser
85 90 95
Phe Ile Leu Glu Val Phe Leu
100

<210> 5210
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5210
Gly Arg Val Tyr Cys Leu Phe Lys Trp His Asn Phe Lys Gly Leu Arg
1 5 10 15
Val Gln Ser Leu Asn Leu Pro Arg Glu Gly Ala Pro Lys Leu Ser Ser
20 25 30
Pro His Thr Ser Gly Phe Leu Cys Gly Gly Gly Ala Gly Ile Ser Lys
35 40 45
Leu Trp Cys Glu Arg Val Gly Glu Met Leu Glu Val Gly Val Leu Cys
50 55 60

4665

Ser Arg Pro Pro Ile Leu Ser Gln Cys Pro Leu Pro Pro Ser Ser Pro
 65 70 75 80

Thr Pro Cys Pro Gln Phe Cys Gly Ala Ser Arg Leu
 85 90

<210> 5211

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5211

Gly Ala Val Gly Leu Gly Gly Gln Glu Leu Gln Tyr Gly His Gly Leu
 1 5 10 15

Ser Arg Leu Ser Thr Ser Ala Phe Arg Ala Tyr Gly Gln Gly Thr Leu
 20 25 30

Tyr Asp Ser Pro Leu Leu Gln Val Ser Ile His Leu Gly Tyr Gly Ile
 35 40 45

Tyr Arg Pro Val Ser Leu Gly Ser His Ala Leu Phe Pro Phe Leu Ser
 50 55 60

Trp Leu Asp Gln Pro Leu Trp Asp Gln His Pro Xaa His Thr Pro Pro
 65 70 75 80

Asp Cys Ser Ser Ile Thr Arg Ile Ala Leu Tyr Phe Val Gln Lys Gly
 85 90 95

Leu Ala Val Pro Cys Cys Phe His Leu Cys Lys Pro Ile Val Pro Leu
 100 105 110

4666

Ala Ala Val Cys Val Arg Val His Val Cys Val Phe His Leu Xaa Ile
 115 120 125

His Cys Thr Arg Tyr Leu Xaa Ser Ala His Tyr Val Pro Gly Thr Val
 130 135 140

Ala Glu Phe Leu Trp Val Cys Leu Ser Met Pro Leu Leu Leu Leu Trp
 145 150 155 160

Gly Pro Leu Ser Val Leu Leu Phe Val Pro Lys Leu Leu Pro Leu Cys
 165 170 175

Gln Ser Gly Cys Leu Arg Phe Cys Val Ser Leu Cys Ala Phe Leu Ser
 180 185 190

Leu Ser Val Leu Val Ser Leu Gln Gly Pro Leu Phe Leu Ser Phe Leu
 195 200 205

Val Ser Val Leu Cys Pro Leu Cys Pro Leu Asp Ser Leu Gly Leu Cys
 210 215 220

Arg Pro Leu Val Cys Pro Gly Ser Ser Ala Phe Leu Thr Ser Ser Cys
 225 230 235 240

Pro Pro Leu His Ser Leu Leu Leu Cys Ser Arg Phe Pro Arg Ser His
 245 250 255

Phe

<210> 5212

<211> 73

<212> PRT

<213> Homo sapiens

<400> 5212

Ile Thr Cys Ser Asp Leu Ile Thr Phe Asp Lys Phe Glu Lys Phe Val
 1 5 10 15

Phe Gln Thr Glu Pro Val Ser Ile Asn Glu Glu Asn Glu Gly Phe Glu
 20 25 30

His Asn Thr Gln Val Arg Asn Gln Gly Ile Ile Ala Leu Ser Tyr Arg
 35 40 45

Asp Trp Glu Val Lys Leu Cys Leu Leu Pro Leu His Ser Ser Asp Ser
 50 55 60

Ala Phe Thr Cys Ser Lys Pro Ser Ala

4667

65

70

<210> 5213

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5213

Arg Leu Met Thr Ala Phe Leu Arg Ile Ala Asn Arg Gly Gln Arg Gly
 1 5 10 15

Gly Ser Gln His Phe Gly Arg Pro Arg Arg Val Asp His Glu Val Arg
 20 25 30

Ser Ser Arg Thr Ala Trp Pro Arg Trp
 35 40

<210> 5214

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5214

Met Leu Ile Asp Asp Glu Asn Leu Val Gly Cys Arg Ala Gln Phe Arg
 1 5 10 15

Arg Ser Glu Leu Gly Val Gly Asp Arg Phe Gly Gly Gly Ile Ser Gln
 20 25 30

Leu Phe Pro Pro Leu Asn Ser Glu Glu Cys Ser Tyr Ala Arg Ser Gln
 35 40 45

Arg Arg Ala Thr Arg Ser Phe Cys Phe Gly Asp Asn Trp Ser Val Glu
 50 55 60

Ser Pro Arg Ser Ser Phe Val Ala Phe Cys Ile Leu Leu Pro Gly
 65 70 75

<210> 5215

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4668

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5215

Gln	Ser	Xaa	Tyr	Xaa	Asn	Ser	Gly	Gln	Xaa	Asp	Ala	Ala	Arg	Gly	Thr
1				5					10					15	

Arg	Val	Gly	Arg	Val	Arg	Leu	Trp	Lys	Arg	Ala	Ala	Ala	Ala	His	Asn
		20					25						30		

Met	His	Ser	Leu	Ala	Thr	Ala	Ala	Pro	Val	Pro	Thr	Thr	Leu	Ala	Gln
		35				40						45			

Val	Asp	Arg	Glu	Lys	Ile	Tyr	Gln	Trp	Ile	Asn	Glu	Leu	Ser	Ser	Pro
	50					55					60				

Glu	Thr	Arg	Glu	Asn	Ala	Leu	Leu	Glu	Leu	Ser	Lys	Lys	Arg	Glu	Ser
65				70						75				80	

Val	Pro	Asp	Leu	Ala	Pro	Met	Leu	Trp	His	Ser	Phe	Gly	Thr	Ile	Ala
			85						90					95	

Ala	Leu	Leu	Gln	Glu	Ile	Val	Asn	Ile	Tyr	Pro	Ser	Ile	Asn	Pro	Pro
			100					105					110		

Thr	Leu	Thr	Ala	His	Gln	Ser	Asn	Arg	Val	Cys	Asn	Ala	Leu	Ala	Leu
		115					120					125			

Leu	Gln	Cys	Val	Ala	Ser	His	Pro	Glu	Thr	Arg	Ser	Ala	Phe	Leu	Ala
	130					135					140				

Ala	His	Ile	Pro	Leu	Phe	Leu	Tyr	Pro	Phe	Leu	His	Thr	Val	Ser	Lys
145					150					155					160

Thr	Arg	Pro	Phe	Glu	Tyr	Leu	Arg	Leu	Thr	Ser	Leu	Gly	Val	Ile	Gly
			165						170					175	

Ala	Leu	Val	Lys	Thr	Asp	Glu	Gln	Glu	Val	Ile	Asn	Phe	Leu	Leu	Thr
			180					185					190		

Thr	Glu	Ile	Ile	Pro	Leu	Cys	Leu	Arg	Ile	Met	Glu	Ser	Gly	Ser	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4669

195 200 205
 Leu Ser Lys Thr Val Ala Thr Phe Ile Leu Gln Lys Ile Leu Leu Asp
 210 215 220
 Asp Thr Gly Leu Ala Tyr Ile Cys Gln Thr Tyr Glu Arg Phe Ser His
 225 230 235 240
 Val Ala Met Ile Leu Gly Lys Met Val Leu Gln Leu Ser Lys Glu Pro
 245 250 255
 Ser Ala Arg Leu Leu Lys His Val Val Arg Cys Tyr Leu Arg Leu Ser
 260 265 270
 Asp Asn Pro Arg Phe Ser Asp Leu Thr Phe Cys Trp Ser Ser Phe Gln
 275 280 285
 Arg Lys
 290

<210> 5216
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 5216
 Ala Arg Phe Ala Arg Ser Ala His Glu Gly Lys Met Pro Lys Lys Lys
 1 5 10 15
 Thr Gly Ala Arg Lys Lys Ala Glu Asn Arg Arg Glu Arg Glu Lys Gln
 20 25 30
 Leu Arg Ala Ser Arg Ser Thr Ile Asp Leu Ala Lys His Pro Cys Asn
 35 40 45
 Ala Ser Met Val Ser Ala Phe Phe Asp Ile Ser Trp
 50 55 60

<210> 5217
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 5217
 Glu Ser Ile Gln His Asn Asn Val Leu Lys Pro Ile Asn Leu Leu Ser
 1 5 10 15

4670

Gln Gln Met Lys Pro Gly Met Lys Arg Gln Arg Ser Leu Tyr Arg Glu
 20 25 30

Ile Leu Phe Leu Ser Leu Val Ser Leu Gly Arg Glu Asn Ile Asp Ile
 35 40 45

Glu Ala Phe Asp Asn Glu Tyr Gly Ile Ala Tyr Asn Ser Leu Ser Ser
 50 55 60

Glu Ile Leu Glu Arg Leu Gln Lys Ile Asp Ala Pro Pro Ser Ala Ser
 65 70 75 80

Val Glu Trp Cys Arg Lys Cys Phe Gly Ala Pro Leu Ile
 85 90

<210> 5218

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5218

Asn Thr Lys Thr Asn Lys Gln Xaa Lys Asn Gln Asn Ala Leu Tyr Arg
 1 5 10 15

Ile Ala Cys Glu Val Phe Ser Thr Glu Ser Ile Phe Pro Phe Val Ser
 20 25 30

Asp Phe Lys Leu Thr Tyr Glu Gly Arg Glu Met Ile Thr Phe Pro Val
 35 40 45

Lys Ser Ile Asp Asn Leu Ile Asn Leu Val Thr Pro Pro Ser Val Leu
 50 55 60

Asn Ile Thr Lys Phe Val Val Ile Arg Leu Ser Ala Pro Val Phe Ile
 65 70 75 80

Val Glu Leu Pro Leu Ser Leu Glu Thr Phe Leu Leu Lys Asn Asp Gly
 85 90 95

4671

Ser Ile Val Phe Xaa Tyr Val Pro Met Lys Val Gly
 100 105

<210> 5219

<211> 139

<212> PRT

<213> Homo sapiens

<400> 5219

Arg Thr Ser Pro Arg Phe Gln Phe Gln Gly Leu Thr Phe Leu Arg Arg
 1 5 10 15

Arg Trp Asn Val Lys Gly Gly Arg Lys Glu Ile Lys Arg Pro Gln Val
 20 25 30

Lys Met Trp Lys Val Thr Ser Ser Leu Arg Pro Arg Gly Thr Arg Arg
 35 40 45

Glu Ser Pro Arg Gly Pro Arg Pro Ser Glu Arg Val Ala Lys Lys Lys
 50 55 60

Ser Ala Pro Ala Glu Glu Gln Leu Arg Gly Pro Cys Trp Asp Gln Ser
 65 70 75 80

Ser Lys Ala Ser Ala Gln Asp Ala Gly Asp His Val Gln Pro Pro Glu
 85 90 95

Gly Arg Asp Phe Thr Leu Lys Pro Lys Lys Arg Arg Gly Lys Lys Lys
 100 105 110

Leu Gln Lys Pro Val Glu Ile Ala Glu Asp Ala Thr Leu Glu Glu Thr
 115 120 125

Leu Val Lys Lys Lys Lys Lys Lys Asp Ser Lys
 130 135

<210> 5220

<211> 125

<212> PRT

<213> Homo sapiens

<400> 5220

Ser Arg Gln Asn Glu Lys Gly Gly Gly His Cys Ser Pro Leu Asn Ser
 1 5 10 15

Phe Phe Arg Ser Ser Ser Met Ser Leu Ser Ala Leu Ala Cys Asp Phe
 20 25 30

4672

Thr Pro Ile Gln Pro Trp Glu Trp Glu Glu Tyr Glu Gln Ile Thr Leu
 35 40 45

Gly Leu Thr Ala Pro Ser Asn Leu Leu Glu Ser Asn Tyr Leu Gly Gln
 50 55 60

Ala Ser Glu Cys Phe Val Arg Lys Leu Val Arg Arg Phe Pro Gln Leu
 65 70 75 80

Leu Pro Gly Pro Pro Gly His Cys Arg Lys Asp Leu Gly Asp Pro Gln
 85 90 95

Gln Arg Pro Ile Ala Leu Leu Pro Ser Leu Pro His Gln Glu Arg Asn
 100 105 110

Asn Val His Arg Leu Glu Ala Asp Ser Glu Val Asp Leu
 115 120 125

<210> 5221

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5221

Asn Tyr Leu Pro Ser Leu Ser Tyr Ala Ser Xaa Ile Gly Met Leu Leu
 1 5 10 15

Val Ser Met His Thr Thr Thr Phe His Gly Phe Tyr Cys Ala Gln Thr

4673

20 25 30

Leu His Ala Phe Arg Met Ile Tyr Leu Arg Arg Tyr Ile Ile Cys His
35 40 45

Pro Asp Pro Lys Arg Xaa Arg Xaa Xaa Asp His Ser Glu Pro Leu Ile
50 55 60

Arg Lys Leu Leu Ala Ser Val Phe Asp Thr Ser Leu Thr Leu Tyr Ile
65 70 75 80

His Val Ile Ile Ser Cys Gln Ile Leu Asp Ser Ile Asn Cys Pro Leu
85 90 95

Thr Ala Tyr

<210> 5222

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4674

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5222

Lys	Tyr	Leu	Val	Glu	Ile	Pro	Glu	Phe	Tyr	Glu	Val	Xaa	Asp	Lys	Lys
1				5				10						15	

Xaa	Ala	Gln	Gly	Leu	Leu	Lys	Ser	Thr	Cys	Ile	Ile	Ser	Pro	Phe	Gln
			20					25					30		

Lys	Thr	Xaa	Thr	Xaa	Val	Xaa	Gly	Lys	Ile	Pro	Val	Xaa	Xaa	Ile	Cys
		35					40					45			

Tyr	Xaa	Phe	Leu	Leu	Pro	His	Leu	Ala	Asn	Asn	Phe
	50					55					60

<210> 5223

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

4675

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5223

Leu	Thr	Xaa	Xaa	Asn	Lys	Ser	Trp	Xaa	Ser	Thr	Ala	Val	Ala	Ala	Ala
1				5				10					15		

Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Ala
			20				25					30			

Ala	Ser	Met	Lys	Arg	Lys	Ser	Glu	Arg	Arg	Ser	Ser	Trp	Ala	Ala	Ala
		35					40					45			

Pro	Pro	Cys	Ser	Arg	Arg	Cys	Ser	Ser	Thr	Ser	Pro	Gly	Val	Lys	Lys
	50					55					60				

Ile	Arg	Ser	Ser	Thr	Gln	Gln	Asp	Pro	Arg	Arg	Arg	Asp	Pro	Gln	Asp
65					70					75				80	

Asp	Val	Tyr	Leu	Asp	Ile	Thr	Asp	Arg	Leu	Cys	Phe	Ala	Ile	Leu	Tyr
				85					90					95	

Ser	Arg	Pro	Lys	Ser	Ala	Ser	Asn	Val	His	Tyr	Phe	Ser	Ile	Asp	Asn
			100				105						110		

Glu	Leu	Glu	Tyr	Glu	Asn	Phe	Tyr	Ala	Asp	Phe	Gly	Pro	Leu	Asn	Leu
		115					120					125			

Ala	Met	Val	Tyr	Arg	Tyr	Cys	Cys	Lys	Ile	Asn	Lys	Lys	Leu	Lys	Ser
	130					135					140				

Ile	Thr	Met	Leu	Arg	Lys	Lys	Ile	Val	His	Phe	Thr	Gly	Ser	Asp	Gln
145					150					155				160	

Arg	Lys	Gln	Ala	Asn	Ala	Ala	Phe	Leu	Val	Gly	Cys	Tyr	Met	Val	Ile
				165				170						175	

4676

Tyr Leu Gly Arg Thr Pro Glu Glu Ala Tyr Arg Ile Leu Ile Phe Gly
 180 185 190

Glu Thr Ser Tyr Ile Pro Phe Arg Asp Ala Ala Tyr Gly Xaa Cys Xaa
 195 200 205

Xaa Thr Xaa Pro
 210

<210> 5224

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5224

Lys Gln Arg Gly Asn Leu Lys Ala Thr Leu Thr His Leu Gln Ser Ser
 1 5 10 15

Gln Ile Leu Thr Phe Thr Arg Leu Ala Phe Cys Phe Trp Ala Ser Pro
 20 25 30

Lys Gln Thr Ala Ser His Pro Asn Arg Gly Arg Met Glu Met Phe Val
 35 40 45

<210> 5225

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5225

Trp Tyr Phe Ser Lys Cys Val Leu Val Val Ile Thr Ser Asn Ile Asn
 1 5 10 15

Leu Cys Cys Glu Ser Phe Val Ser Phe Ser Thr Val Phe Gln Arg Lys

4677

[illegible]

<210> 5226

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5226

Cys Leu Ala His Arg Lys Cys Ser Asp Met Leu Ser Asn Lys Lys Leu
1 5 10 15

Met Trp Trp Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu
20 25 30

Ala Glu Val Ser Gly Leu Gln Gly Gln Glu Phe Gln Thr Ser Leu Ala
35 40 45

Asn Met Xaa Lys Pro Arg Leu Tyr
50 55

<210> 5227

<211> 94

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

4678

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5227

Gln	Ser	Lys	Pro	Leu	Asn	Ile	Thr	His	Leu	His	Leu	Gln	Val	Trp	Pro
1				5					10					15	

Gln	Xaa	Phe	Lys	Trp	Leu	Leu	Ser	Leu	Leu	His	Ser	Thr	Tyr	Pro	Leu
			20					25					30		

Leu	Gln	Leu	Phe	His	Lys	Tyr	Arg	Leu	Asn	Ile	Pro	Tyr	Leu	Lys	Cys
		35					40					45			

Leu	Gly	Leu	Xaa	Val	Ser	Asp	Phe	Arg	Tyr	Val	Trp	Ile	Leu	Glu	Tyr
	50					55					60				

Leu	Tyr	Met	Tyr	Asn	Glu	Xaa	Leu	Leu	Glu	Leu	Gly	Pro	Lys	Ser	Lys
65					70					75					80

Gln	Asn	Ser	Phe	Met	Phe	His	Ile	Tyr	Leu	Ile	His	Ile	Thr
				85						90			

<210> 5228

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5228

Lys	Glu	Pro	Met	Gln	Val	Trp	Phe	Leu	Ser	Arg	Lys	Asn	Thr	Gly	Thr
1				5					10					15	

Glu	Glu	Thr	Lys	Gln	Asp	Asp	Asp
				20			

<210> 5229

<211> 133

<212> PRT

4679

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5229

Arg	Ala	Arg	Arg	Gly	Val	Ser	Val	Lys	Ala	Xaa	Lys	Xaa	Glu	Thr	Ala
1				5					10					15	

Ala	Thr	Met	Lys	Asp	Xaa	Ala	Leu	Lys	Xaa	Lys	Val	Ser	Thr	Ala	Thr
			20					25					30		

Val	Ser	Arg	Ala	Leu	Met	Asn	Pro	Asp	Lys	Val	Ser	Gln	Ala	Thr	Arg
		35					40					45			

Asn	Arg	Val	Glu	Lys	Ala	Ala	Arg	Glu	Val	Gly	Tyr	Leu	Pro	Gln	Pro
	50					55					60				

Met	Gly	Arg	Asn	Val	Lys	Arg	Asn	Glu	Ser	Arg	Thr	Ile	Leu	Val	Ile
65					70					75				80	

Val	Pro	Asp	Ile	Cys	Asp	Pro	Phe	Phe	Ser	Glu	Ile	Ile	Arg	Gly	Ile
				85					90					95	

4680

Glu Val Thr Ala Ala Asn His Gly Tyr Leu Val Xaa Ile Gly Asp Cys
 100 105 110

Ala His Gln Asn Gln Gln Glu Lys Thr Phe Ile Xaa Leu Ile Ile Thr
 115 120 125

Lys Gln Ile Asp Trp
 130

<210> 5230

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (243)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (246)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5230

Ser Trp Lys Thr Gly Glu Asp Lys Ser Met Ser Ser Leu Pro Gly Cys
 1 5 10 15

Ile Gly Leu Asp Ala Ala Thr Ala Thr Val Glu Ser Glu Glu Ile Ala
 20 25 30

Glu Leu Gln Gln Ala Val Val Glu Glu Leu Gly Ile Ser Met Glu Glu
 35 40 45

4681

Leu Arg His Phe Ile Asp Glu Glu Leu Glu Lys Met Asp Cys Val Gln
 50 55 60
 Gln Arg Lys Lys Gln Leu Ala Glu Leu Glu Thr Trp Val Ile Gln Lys
 65 70 75 80
 Glu Ser Glu Val Ala His Val Asp Gln Leu Phe Asp Asp Ala Ser Arg
 85 90 95
 Ala Val Thr Asn Cys Glu Ser Leu Val Lys Asp Phe Tyr Ser Lys Leu
 100 105 110
 Gly Leu Gln Tyr Arg Asp Ser Ser Ser Glu Asp Glu Ser Ser Arg Pro
 115 120 125
 Thr Glu Ile Ile Glu Ile Pro Asp Glu Asp Asp Asp Val Leu Ser Ile
 130 135 140
 Asp Ser Gly Asp Ala Gly Ser Arg Thr Pro Lys Asp Gln Lys Leu Arg
 145 150 155 160
 Glu Ala Met Ala Ala Leu Arg Lys Ser Ala Gln Asp Val Gln Lys Phe
 165 170 175
 Met Asp Ala Val Asn Lys Lys Ser Ser Ser Gln Asp Leu His Lys Gly
 180 185 190
 Thr Leu Ser Gln Met Ser Gly Glu Leu Ser Lys Asp Gly Asp Leu Ile
 195 200 205
 Val Ser Met Arg Ile Leu Gly Lys Lys Arg Thr Lys Thr Trp His Lys
 210 215 220
 Gly Pro Leu Leu Pro Xaa Arg Gln Leu Asp Gln Gly Ser Thr Gln Ala
 225 230 235 240
 Pro Val Xaa Ser Ala Xaa Gln Ala Gln Xaa Arg Lys Glu Asn His Leu
 245 250 255
 Xaa Thr Phe Ile Pro
 260

<210> 5231

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5231

Ile Asn Pro Ala Leu Leu Arg Lys Gly Asn Leu Phe Arg Gln Ser Gly

4682

1 5 10 15
 Lys Gly Val Leu Arg Lys Leu Ser Phe Phe Ile Pro Ser Phe Leu Pro
 20 25 30
 Thr Thr Val Thr Gly Tyr Arg Gly Leu Trp Thr Leu Lys Thr Asn Val
 35 40 45
 Trp Pro Leu Thr Gly Leu Ile Cys Ile Phe Leu
 50 55

<210> 5232
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 5232
 Thr Ser Ser Pro Trp Ala Ala Pro Pro Gly Ser Gly Gly Pro Glu Pro
 1 5 10 15
 Pro Arg Pro Gly Leu Pro Arg Leu Gly Leu Gly Asp Leu Asn Leu Leu
 20 25 30
 Thr Leu Gly Cys Pro Ser Trp
 35

<210> 5233
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5233
 Lys Leu Cys Arg Leu Ile Asn Glu Asp Val Asn Glu Gln Val Met Gln
 1 5 10 15
 Val Leu Gly Pro Glu Asp Leu Gln Ser Ile Ile Tyr Lys Xaa Glu Glu
 20 25 30
 His Glu Glu Phe Phe Pro Ala Phe Gln Ala Phe Thr Asn Asp Leu Leu
 35 40 45
 Glu Ile Leu Glu Ile Asp Asp Leu Asp Ala Ile Val Pro Ala Val Lys

4683

50 55 60
 Lys Leu Lys Val Leu Ser Tyr
 65 70

 <210> 5234
 <211> 81
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5234
 Ala Leu Val Leu Ser Arg Glu Gln Glu Lys Leu Phe Glu Lys Gly Lys
 1 5 10 15
 Glu Ser Ile Pro Tyr Leu Ile Arg Thr His Arg His Ala Arg His Gly
 20 25 30
 His Gly Val His Val His Leu Ser His Val Thr Thr Ala Ala Ile His
 35 40 45
 Val His His Thr Ile His Cys Arg Ile Xaa Leu Val Gly Lys Leu Ala
 50 55 60
 Ala Gly Glu Arg Ser Leu Ser Lys Gln Met Val Tyr Tyr Leu Trp Ser
 65 70 75 80
 Thr

<210> 5235
 <211> 85
 <212> PRT
 <213> Homo sapiens

 <400> 5235
 Ala Asp Lys Asn Glu Ile Leu Phe Ser Glu Phe Asn Ile Asn Tyr Asn
 1 5 10 15
 Asn Glu Leu Pro Met Tyr Arg Lys Gly Thr Val Leu Ile Trp Gln Lys
 20 25 30
 Val Asp Glu Val Met Thr Lys Glu Ile Lys Leu Pro Thr Glu Met Glu

4684

35 40 45
 Gly Lys Lys Met Ala Val Thr Arg Thr Arg Thr Lys Pro Val Pro Leu
 50 55 60
 His Cys Asp Ile Ile Gly Asp Ala Phe Trp Lys Glu His Pro Glu Ile
 65 70 75 80
 Leu Asp Glu Asp Ser
 85

<210> 5236

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5236

Leu Glu Cys Trp Val Val Leu Ser Ile Ile Gly Val Lys Cys Gly Ala
 1 5 10 15

Val Ala Tyr Thr Cys Asn Pro Ser Thr Leu Gly Lys Leu Xaa Trp Gly
 20 25 30

Gly Ser Leu Glu Val Gln Glu Phe Glu Ala Thr Leu Gly Gln His Gly
 35 40 45

Gly Thr Pro Ile Phe
 50

<210> 5237

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

4685

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5237

Glu	Lys	Xaa	Ser	Gly	Val	Val	Trp	Asp	Arg	Ser	Ala	Thr	His	Ser	Glu
1				5				10						15	
Met	Val	Gln	Glu	Asn	Gln	Phe	Phe	Met	Leu	Tyr	Phe	Gln	Ser	Leu	Tyr
		20						25					30		
Lys	Phe	Val	Phe	Val	Ser	Lys	Ile	Lys	Lys	Arg	Xaa	Lys	Met	Glu	Gly
		35					40					45			
Lys	Ile	Pro	Gly	Arg	Gln	Met	Asn	Lys	Arg	His	Glu				
	50					55					60				

<210> 5238

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5238

Lys	Arg	Lys	Lys	Ser	Phe	Trp	Gly	Met	Leu	Tyr	His	Ser	Asn	Gly	Ser
1				5					10					15	
Val	Thr	Thr	Tyr	Phe	Val	Leu	Ser	Met	Ser	Leu	Ile	Pro	Ser	Tyr	Glu
			20					25					30		
Thr	Ile	Trp	Leu	Asp	Tyr	Pro	Val	Tyr	Cys	Val	Glu	Ile	Lys	Val	Leu
		35					40					45			
Ile	Cys	Thr	Phe	Leu	Val	Gln	Tyr	Leu	Ser	Tyr					
	50					55									

<210> 5239

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5239

Tyr	Leu	His	Phe	His	Ile	Leu	Val	Ile	Cys	Leu	Leu	His	Thr	Trp	Gln
1				5					10					15	
Asn	Lys	Thr	Glu	Ile	Pro	Ser	Gln	Lys	Lys	Lys	Glu	Lys	Glu	Lys	Lys
		20						25				30			
Ile	Ala	Leu	Tyr	Leu	Phe	Leu	Val	Ser	Thr	Ala	Met	Lys	Ile	Leu	Asn
		35					40					45			

4686

Thr Pro Asn Ser Val Glu
50

<210> 5240

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5240

Cys Phe Phe Phe Ile Val Phe Gln Ser Val Ser Ile His Leu Lys Lys
1 5 10 15

Lys Asn Arg Asn Asn Ser Arg Tyr Phe Lys Gln Lys Gly Ile Trp Trp
20 25 30

Lys Gly Leu Thr Ile Val Met Ser Gly Arg Leu Val Glu Pro Lys Arg
35 40 45

Arg Gly Cys Cys Pro Lys Ile Arg Lys Leu Pro Val Pro Thr Pro Thr
50 55 60

Ala Ala Leu Leu Glu Ala
65 70

<210> 5241

<211> 119

<212> PRT

<213> Homo sapiens

<400> 5241

Thr Gly Glu Ala Ala Leu Trp Gly Leu Pro Ala Ala Gly Ala Gly Glu
1 5 10 15

Arg His Val Asp Thr Trp Pro Leu Trp Leu Pro Pro Ala Arg Ser Ser
20 25 30

Ala Gly Pro Ser Pro Trp Gly Trp Ala Ser Cys Ser Arg Ser Arg Thr
35 40 45

Pro Ser Gly Leu Lys Val Gly Glu Val Trp Trp Trp Arg Trp Gly Gly
50 55 60

Ser Glu Lys Cys Lys Arg Pro Val Gly Leu Gln Gln Lys Glu Ala Ser
65 70 75 80

Gly Gly Trp Asp Gly Gly Gln Trp Gly Lys Ala Leu Gly Ser Ile Gly

4687

85 90 95
 Gly Ser Leu Ala Ala Asn Ser Leu Asp Phe Gly Gly Gln Val Arg Pro
 100 105 110
 Ala Ser Leu Ala Pro Ala Ala
 115

<210> 5242

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5242

Gly Pro Xaa Lys Glu Arg Arg Phe Gly Ala Val Ala Cys Gly Val Ala
 1 5 10 15

Met Glu Leu Tyr Val Phe Gly Gly Val Arg Ser Arg Glu Asp Ala Gln
 20 25 30

Gly Ser Glu Met Val Thr Cys Lys Ser Glu Phe Tyr His Asp Glu Phe
 35 40 45

Lys Arg Trp Ile Tyr Leu Asn Asp Gln Asn Leu Cys Ile Pro Ala Ser
 50 55 60

Ser Ser Phe Val Tyr Gly Ala Val Pro Ile Gly Ala Ser Ile Tyr Val
 65 70 75 80

Ile Gly Asp Leu Asp Thr Gly Thr Asn Tyr Asp Tyr Val Arg Glu Phe
 85 90 95

Lys Arg Ser Thr Gly Thr Trp His Xaa Xaa Lys Pro Leu Leu Pro Ser
 100 105 110

4688

Asp Leu Arg Arg Thr Gly Cys Ala Ala Leu Arg Ile Ala Asn Cys Lys
 115 120 125

Leu Phe Arg Leu Gln Leu Gln Gln Gly Leu Phe Arg Ile Arg Val His
 130 135 140

Ser Pro
 145

<210> 5243

<211> 104

<212> PRT

<213> Homo sapiens

<400> 5243

Asp Gly Pro Ala Lys Cys Arg Pro Leu Leu Leu Asn Lys Asn Ile Leu
 1 5 10 15

Lys Pro Leu Phe Leu Leu His Gly Gln Glu Ala Ala Arg Glu Ser Ala
 20 25 30

Arg Val Pro Trp Ser Glu Leu Ala Ser Pro Cys Leu Leu Cys Pro Arg
 35 40 45

Ala Ala Trp Phe Leu Val Gln Cys Ser Asp Thr Ala Cys Pro Ser Pro
 50 55 60

Thr Ser Ser Gln Gln His Leu Leu Ser Leu Ala Ala Met Ala Met Thr
 65 70 75 80

Thr Pro Glu Lys Gln Leu Gln Gly Pro Ser Gln Ile Leu Phe Cys Leu
 85 90 95

His Ala Ser Ala Gly Cys Arg Tyr
 100

<210> 5244

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

4689

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (241)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5244
 Ile Glu Thr Ser Asn Lys Asn Asp Met Thr Ile Asp Ile Leu His Ala
 1 5 10 15
 Asp Gly Glu Arg Pro Asn Val Leu Glu Asn Leu Asp Asn Ser Lys Glu
 20 25 30
 Lys Thr Val Gly Ser Glu Ala Ala Lys Thr Glu Asp Thr Val Leu Cys
 35 40 45
 Ser Ser Asp Thr Asp Glu Glu Cys Leu Ile Ile Xaa Thr Glu Cys Lys
 50 55 60
 Asn Asn Ser Asp Gly Lys Thr Ala Val Val Gly Ser Asn Leu Ser Ser
 65 70 75 80
 Arg Pro Ala Ser Pro Asn Ser Ser Ser Gly Gln Ala Ser Val Gly Asn
 85 90 95
 Gln Thr Asn Thr Ala Cys Xaa Pro Glu Glu Ser Cys Val Leu Lys Lys
 100 105 110
 Pro Ile Lys Arg Val Tyr Lys Lys Phe Asp Pro Val Gly Glu Ile Leu
 115 120 125
 Lys Met Gln Asp Glu Leu Xaa Lys Pro Ile Ser Arg Lys Val Pro Glu
 130 135 140
 Leu Pro Leu Met Asn Leu Glu Asn Ser Lys Gln Pro Ser Val Ser Glu
 145 150 155 160
 Gln Leu Ser Gly Pro Ser Asp Ser Ser Ser Trp Pro Lys Ser Gly Trp
 165 170 175
 Pro Ser Ala Phe Gln Lys Pro Lys Gly Arg Leu Pro Tyr Glu Leu Gln
 180 185 190

4690

Asp	Tyr	Val	Glu	Asp	Thr	Ser	Glu	Tyr	Leu	Ala	Pro	Gln	Glu	Gly	Asn	195	200	205	
Phe	Val	Tyr	Lys	Leu	Phe	Ser	Leu	Gln	Asp	Leu	Leu	Leu	Leu	Val	Arg	210	215	220	
Cys	Ser	Val	Gln	Arg	Ile	Glu	Thr	Arg	Pro	Arg	Ser	Lys	Lys	Arg	Lys	225	230	235	240
Xaa	Ile	Arg	Arg	Gln	Phe	Pro	Val	Tyr	Val	Leu	Pro	Lys	Val	Glu	Tyr	245	250	255	
Gln	Ala	Cys	Tyr	Gly	Val	Glu	Ala	Leu	Thr	Glu	Ser	Glu	Leu	Cys	Arg	260	265	270	
Leu	Trp	Thr	Glu	Ser	Leu	Leu	His	Ser	Asn	Ser	Ser	Phe	Tyr	Val	Gly	275	280	285	
His	Ile	Asp	Ala	Phe	Thr	Ser	Lys	Leu	Phe	Leu	Leu	Glu	Glu	Ile	Thr	290	295	300	
Ser	Glu	Glu	Leu	Lys	Glu	Lys	Leu	Ser	Ala	Leu	Lys	Ile	Ser	Asn	Leu	305	310	315	320
Phe	Asn	Ile	Leu	Gln	His	Ile	Leu	Lys	Lys	Leu	Ser	Ser	Leu	Gln	Glu	325	330	335	
Gly	Ser	Tyr	Leu	Leu	Ser	His	Ala	Ala	Glu	Asp	Ser	Ser	Leu	Leu	Ile	340	345	350	
Tyr	Lys	Ala	Ser	Asp	Gly	Lys	Val	Thr	Arg	Thr	Ala	Tyr	Asn	Leu	Tyr	355	360	365	
Lys	Thr	His	Cys	Gly	Leu	Pro	Gly	Val	Pro	Ser	Ser	Leu	Ser	Val	Pro	370	375	380	
Trp	Val	Pro	Leu	Asp	Pro	Ser	Leu	Leu	Leu	Pro	Tyr	His	Ile	His	His	385	390	395	400
Gly	Arg	Ile	Pro	Cys	Thr	Phe	Pro	Pro	Lys	Ser	Leu	Asp	Thr	Thr	Thr	405	410	415	
Gln	Gln	Lys	Ile	Gly	Gly	Thr	Arg	Met	Pro	Thr	Arg	Ser	His	Arg	Asn	420	425	430	
Pro	Val	Ser	Met	Glu	Thr	Lys	Ser	Ser	Cys	Leu	Pro	Ala	Gln	Gln	Val	435	440	445	
Glu	Thr	Glu	Gly	Val	Ala	Pro	His	Lys	Arg	Lys	Ile	Thr				450	455	460	

4691

<210> 5245

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5245

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Leu Tyr Ser Pro Phe Gln Phe Phe Leu Pro Leu Phe Leu Phe Leu Ser
 1             5             10             15

Cys Ser Pro Leu Ser Ala Leu Gln Asp Phe Pro Ala Thr Trp Val Leu
          20             25             30

Val Leu Lys Leu Pro Tyr Thr Phe Thr Val Phe Phe Leu Leu Pro Phe
          35             40             45

Phe Leu Ile Phe Ile Ser Phe Leu Asn Phe Leu Ser Leu Ser Ser Leu
 50             55             60

Pro Phe Leu Leu Ser Phe Leu Phe Val His Val Ile Ser Ser Pro Cys
 65             70             75             80

Leu Pro Pro Leu Thr Phe Leu Tyr Phe Leu Ser Leu Pro Pro Tyr Tyr
          85             90             95

Ser Phe Leu Phe Leu Val Leu Gln Phe Asn Tyr Phe Lys His Ile Thr
          100            105            110

His Lys Ala Cys His Ser Leu Asp Phe
          115            120

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<210> 5246

<211> 79

<212> PRT

<213> Homo sapiens

<400> 5246

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Thr Leu His Thr Ala His Pro Ser Pro Val Leu Thr Leu Cys Ser Tyr
 1             5             10             15

His Ser Leu Ala Ala Cys His Ala Val Gly Leu Gln Ile Cys Thr His
          20             25             30

Lys Phe Leu Arg Lys Ser Leu His Glu His His Leu Ala Ile Phe Cys
          35             40             45

Thr Asp Gln Thr Arg Asp Leu Asn Val Phe Gln His Lys Arg Ile Thr

```

4692

50

55

60

Ser Glu Trp Trp Ser Val Arg Ile Leu Ala Lys Val Met Val Ile
65 70 75

<210> 5247

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5247

Leu Glu Glu Thr Leu Phe Leu Gln Gly Thr Lys Gln Leu Tyr Phe Ser
1 5 10 15

Thr Asp Met His Tyr Phe His Cys Glu Phe Thr Phe Leu Leu His Val
20 25 30

Gln Met Ser Leu Phe Val Phe Phe Phe Cys Asn Ile Asn Cys Asn Asp
35 40 45

Val Leu Pro Gly Ile His Glu Asn Ile Ile Lys Thr His Phe
50 55 60

<210> 5248

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5248

Pro Gly Glu Pro Lys Pro Thr Pro Arg Gly Lys Pro Gly Gln Thr Gly
1 5 10 15

4693

Gly Pro Pro Ser Trp Tyr Xaa Pro Xaa Lys Leu Ile Ala Leu Xaa Gly
 20 25 30

Gly Gly Glu Lys Thr Pro Thr His Leu Val Arg Glu Val Phe Cys Leu
 35 40 45

Tyr Cys Gly Val Arg Ala Glu Glu Lys Ser Leu Phe Phe Pro Leu Arg
 50 55 60

Leu Cys Phe Lys Glu Gln Gly Arg Gly Lys Phe Cys Gly Phe
 65 70 75

<210> 5249

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5249

Lys Leu Thr Lys Cys Pro Val Arg Trp Leu Arg Pro Ala Ile Pro Ala
 1 5 10 15

Leu Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Ala Arg Ser Leu Arg
 20 25 30

Thr Ala Trp Pro Thr Trp Arg Asn Pro Val Ser Thr Ile Xaa Thr Lys
 35 40 45

Phe Asn Gln Ala Trp Trp Trp Ala Pro Val Val Pro Ala Tyr Leu Gly
 50 55 60

Asp Leu Ser His Glu Glu Ser Leu Xaa Pro Ser Trp Val Gly Xaa Leu
 65 70 75 80

4694

<210> 5250

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5250

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Pro Pro Gly Ser Asn Lys Pro Pro Ala Ser Ala Tyr Gln Val Ala Glu
 1              5              10              15

Thr Thr Gly Thr Tyr His Arg Ala Cys Leu Ile Phe Lys Ile Phe Tyr
      20              25              30

Lys Asp Glu Val Ser Leu Cys Cys Pro Gly Trp Ser Gln Thr Pro Asn
      35              40              45

Leu Lys Gln Ser Ala His Val Gly Leu Pro Lys Cys
      50              55              60

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<210> 5251

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5251

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Val Tyr Gly Asn Tyr Leu Ile Ile Leu Lys Arg Thr His Phe Ser Cys
 1              5              10              15

Lys Tyr Val Thr Ser Glu Phe Lys Lys Ile Thr Leu Asn Thr Leu Ile
      20              25              30

Phe Ala Ala Phe Phe Ser Val Tyr Ile Thr Cys Leu Leu Ser Glu Trp
      35              40              45

Glu Tyr Met Cys Ala Ser Gln His Leu Leu Leu Lys Cys Val Ile Phe
      50              55              60

Ile Cys Gln Thr Gly
      65

```

<210> 5252

<211> 54

<212> PRT

<213> Homo sapiens

4695

<400> 5252

Arg His Lys Asp Thr Phe Arg Ile Val Lys Thr Leu Ser Ile Glu Lys
 1 5 10 15

Phe Leu Asn Glu Thr Val Ser Lys Lys Ser Phe Ala Ser Arg Phe Leu
 20 25 30

Arg Gly Ala Ile Lys Lys Arg Thr Leu Pro Val Val Thr Ala Ala Ala
 35 40 45

Ile Ala Pro Leu Tyr Cys
 50

<210> 5253

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5253

Phe His Leu Gln Gln Leu Leu Glu Arg Lys Pro Asp Asn Tyr Met Thr
 1 5 10 15

Leu Ser Arg Leu Ile Asp Leu Leu Arg Arg Cys Gly Lys Leu Glu Asp
 20 25 30

Val Pro Arg Phe Phe Ser Met Ala Glu Lys Arg Asn Ser Arg Ala Lys
 35 40 45

Leu Glu Pro Gly Phe Gln Tyr Cys Lys Gly Leu Tyr Leu Trp Tyr Thr
 50 55 60

Gly Xaa Xaa Asn Asp Ala Leu Arg His Phe Asn Lys Ala Arg Lys Asp
 65 70 75 80

Arg Asp Trp Gly Gln Asn Ala Leu Tyr Asn Met Ile Glu Asn Leu Phe
 85 90 95

Glu Ser Arg

4696

<210> 5254

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5254

Ser	Val	Leu	Trp	Asn	Ala	Met	Ile	His	Pro	Leu	Cys	Asn	Met	Thr	Leu
1				5					10					15	

Lys	Gly	Val	Val	Trp	Tyr	Gln	Gly	Glu	Ser	Asn	Ile	Asn	Tyr	Asn	Thr
			20					25					30		

Asp	Leu	Tyr	Asn	Cys	Thr	Phe	Pro	Ala	Leu	Ile	Glu	Asp	Trp	Arg	Glu
		35					40					45			

Thr	Phe	His	Arg	Gly	Ser	Gln	Gly	Gln	Thr	Glu	Arg	Phe	Phe	Pro	Phe
	50					55					60				

Gly	Leu	Val	Gln	Leu	Ser	Ser	Asp	Leu	Ser	Lys	Lys	Xaa	Ser	Asp	Asp
65					70					75					80

Gly	Phe	Pro	Gln	Ile	Arg	Trp	His	Gln	Thr	Ala	Asp	Phe	Gly	Tyr	Val
				85					90					95	

Pro	Asn	Pro	Lys	Met	Pro	Asn	Thr	Phe	Met	Ala	Val	Ala	Met	Asp	Leu
		100						105					110		

Cys	Asp	Arg	Asp	Ser	Pro	Phe	Gly	Ser	Ile	His	Pro	Arg	Asp	Lys	Gln
		115					120					125			

Asn	Cys	Gly	Leu	Ser	Ala	Ala	Phe	Gly	Gly	Pro	Cys	Ser	Gly	Leu	Trp
	130					135					140				

<210> 5255

<211> 56

<212> PRT

<213> Homo sapiens

4697

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5255
 Val Leu Pro Leu Leu Pro Lys Val Leu Gly Leu Arg His His Thr Gln
 1 5 10 15
 Pro Lys Leu Lys Ala Ile Phe Ser Asn Ser His Gln Cys Gly Tyr Cys
 20 25 30
 Tyr Lys Xaa Xaa Trp Phe Leu Gly His Ile Trp Tyr Gln Asn Val Tyr
 35 40 45
 Val Tyr Pro Tyr Lys Tyr Gly Met
 50 55

<210> 5256
 <211> 434
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (347)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5256
 Asn Leu Asn Met Glu Ala Thr Gly Thr Asp Glu Val Asp Lys Leu Lys
 1 5 10 15
 Thr Lys Phe Ile Ser Ala Trp Asn Asn Met Lys Tyr Ser Trp Val Leu
 20 25 30
 Lys Thr Lys Thr Tyr Phe Ser Arg Asn Ser Pro Val Leu Leu Leu Gly
 35 40 45
 Lys Cys Tyr His Phe Lys Tyr Glu Asp Glu Asp Lys Thr Leu Pro Ala
 50 55 60
 Glu Ser Gly Cys Thr Ile Glu Asp His Val Ile Ala Gly Asn Val Glu
 65 70 75 80

4698

Glu	Phe	Arg	Lys	Asp	Phe	Ile	Ser	Arg	Ile	Trp	Leu	Thr	Tyr	Arg	Glu	85	90	95	
Glu	Phe	Pro	Gln	Ile	Glu	Gly	Ser	Ala	Leu	Thr	Thr	Asp	Cys	Gly	Trp	100	105	110	
Gly	Cys	Thr	Leu	Arg	Thr	Gly	Gln	Met	Leu	Leu	Ala	Gln	Gly	Leu	Ile	115	120	125	
Leu	His	Phe	Leu	Gly	Arg	Ala	Trp	Thr	Trp	Pro	Asp	Ala	Leu	Asn	Ile	130	135	140	
Glu	Asn	Ser	Asp	Ser	Glu	Ser	Trp	Thr	Ser	His	Thr	Val	Lys	Lys	Phe	145	150	155	160
Thr	Ala	Ser	Phe	Glu	Ala	Ser	Leu	Ser	Gly	Glu	Arg	Glu	Phe	Lys	Thr	165	170	175	
Pro	Thr	Ile	Ser	Leu	Lys	Glu	Thr	Ile	Gly	Lys	Tyr	Ser	Asp	Asp	His	180	185	190	
Glu	Met	Arg	Asn	Glu	Val	Tyr	His	Arg	Lys	Ile	Ile	Ser	Trp	Phe	Gly	195	200	205	
Asp	Ser	Pro	Leu	Ala	Leu	Phe	Gly	Leu	His	Gln	Leu	Ile	Glu	Tyr	Gly	210	215	220	
Lys	Lys	Ser	Gly	Lys	Lys	Ala	Gly	Asp	Trp	Tyr	Gly	Pro	Ala	Val	Val	225	230	235	240
Ala	His	Ile	Leu	Arg	Lys	Ala	Val	Glu	Glu	Ala	Arg	His	Pro	Asp	Leu	245	250	255	
Gln	Gly	Ile	Thr	Ile	Tyr	Val	Ala	Gln	Asp	Cys	Thr	Val	Pro	Val	Arg	260	265	270	
Leu	Gly	Gly	Glu	Arg	Thr	Asn	Thr	Asp	Tyr	Leu	Glu	Phe	Val	Lys	Gly	275	280	285	
Ile	Leu	Ser	Leu	Glu	Tyr	Cys	Val	Gly	Ile	Ile	Gly	Gly	Lys	Pro	Lys	290	295	300	
Gln	Ser	Tyr	Tyr	Phe	Ala	Gly	Phe	Gln	Asp	Asp	Ser	Leu	Ile	Tyr	Met	305	310	315	320
Asp	Pro	His	Tyr	Cys	Gln	Ser	Phe	Val	Asp	Val	Ser	Ile	Lys	Asp	Phe	325	330	335	
Pro	Leu	Glu	Thr	Phe	His	Cys	Pro	Ser	Pro	Xaa	Lys	Met	Ser	Phe	Arg	340	345	350	

4699

Lys Met Asp Pro Ser Cys Thr Ile Gly Phe Tyr Cys Arg Asn Val Gln
 355 360 365

Asp Phe Lys Arg Ala Ser Glu Glu Ile Thr Lys Met Leu Lys Phe Ser
 370 375 380

Ser Lys Glu Lys Tyr Pro Leu Phe Thr Phe Val Asn Gly His Ser Arg
 385 390 395 400

Asp Tyr Asp Phe Thr Ser Thr Thr Thr Asn Glu Glu Asp Leu Phe Ser
 405 410 415

Glu Asp Glu Lys Lys Gln Leu Lys Arg Phe Ser Thr Glu Glu Phe Val
 420 425 430

Leu Leu

<210> 5257

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5257

Tyr Ile Ser Cys Ile Phe Tyr Asp Phe Ser Ile Lys His Ser Gly Val
 1 5 10 15

Leu Ala Phe Pro Gly Lys Gly Lys Leu Val Cys Ala Leu Val Lys Tyr
 20 25 30

Leu Asn Ser Asn Val Pro Tyr Ser Ala Cys Ile His Phe Val Lys Ser
 35 40 45

Phe Val Val Leu Leu Glu Gln Phe Ser Lys Ala Asp Phe Met Pro Tyr
 50 55 60

Leu Ile Glu Ile
 65

<210> 5258

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4700

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5258

Ile	Ala	Gly	Arg	Gly	Ile	Met	Ala	Cys	Gln	His	Ser	Leu	Cys	Pro	Xaa
1				5					10					15	

Asn	Leu	Arg	Pro	Arg	Met	Arg	Ser	Cys	Gln	His	Asn	Ile	His	Pro	Phe
		20						25					30		

Glu	Gln	Met	Glu	Ser	Gly	Thr	Leu	Thr	Gln	Pro	Ser	Val	Leu	Asn	Asn
		35					40					45			

Thr	Ala	Ile	Ile	Ala	Thr	Cys	Ser	Val	Val	Asn	Val	Asn	Pro	Gln	Ser
	50					55					60				

Gln	Leu	Asn	Tyr	Phe	Arg	Pro	Asn	Ile	Leu	Phe	Leu
65					70				75		

<210> 5259

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5259

Gln	Gly	Phe	Gly	Arg	Pro	Ser	Val	Tyr	His	Ala	Ala	Ile	Val	Xaa	Phe
1				5					10					15	

Leu	Glu	Phe	Phe	Ala	Trp	Gly	Leu	Leu	Thr	Thr	Pro	Met	Leu	Thr	Val
		20					25					30			

Leu	His	Glu	Thr	Phe	Ser	Gln	His	Thr	Phe	Leu	Met	Asn	Gly	Leu	Ile
		35					40					45			

4701

Gln Gly Val Lys Gly Leu Leu Ser Phe Leu Ser Ala Pro Leu Ile Gly
 50 55 60

Ala Leu Ser Asp Val Trp Gly Arg Lys Pro Phe Leu Leu Gly Thr Val
 65 70 75 80

Phe Phe Xaa Xaa Phe Pro Ile Pro Leu Met Arg Ile Ser Pro Cys Phe
 85 90 95

Leu Lys Lys Lys Thr His Gln Trp Thr
 100 105

<210> 5260
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 5260
 Leu Arg Tyr Ser Leu Ile Phe Tyr Ile Ala Ala Leu Phe Phe Leu Phe
 1 5 10 15

Cys Ser Ile Ser Glu Ile Ser His Val Tyr Thr Leu Asn Ile Asn Ile
 20 25 30

Arg Asn His Ala Ile Ile Ser Thr Met Tyr Leu Val Val Ser Tyr Ile
 35 40 45

Cys Ile Thr Leu Leu His Phe Ala Asn
 50 55

<210> 5261
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5261
 Leu Ile Tyr Lys Tyr Asn Tyr Thr Lys Leu Gln Asn Ile Val Xaa Met
 1 5 10 15

Lys Thr Lys Asn Leu Val Pro Asn Ile
 20 25

4702

<210> 5262

<211> 97

<212> PRT

<213> Homo sapiens

<400> 5262

Ser Asp Lys Ala Leu Ala Ser Asp Pro Cys Gln Asn Ser Ile Asn Gly
 1 5 10 15

Cys Leu Glu Val Asp Val His Ile Tyr Ser Glu Met Phe Cys His Leu
 20 25 30

Arg Pro Met Arg Arg Leu Cys Leu Glu Lys Ile Phe Pro His Trp Phe
 35 40 45

Pro Phe Ser Arg Ala Leu Ser Gly Ala Glu Ala Val Asn Ala Leu Arg
 50 55 60

Pro Phe Tyr Phe Ala Val His Pro Asp Phe Phe Gly Gln His Pro Val
 65 70 75 80

Glu Arg Asp Asp Thr Trp Lys Ser Phe Gln Cys Pro Ser Asp Phe Ser
 85 90 95

Leu

<210> 5263

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4703

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5263

Ala	Ser	Cys	Arg	Thr	Xaa	Ser	Arg	Met	Ala	Ile	Phe	Glu	Leu	Val	Ser
1				5					10					15	

Lys	Xaa	Arg	Xaa	Leu	Tyr	Leu	Xaa	Gln	Lys	Ile	Leu	Cys	Glu	Leu	Ser
			20					25					30		

Gly	His	Xaa	Asp	Leu	Phe	Val	Asp	Val	Asn	Lys	His	Leu	Phe	Asp	Gly
		35					40					45			

Glu	Val	Cys	Ala	Ile	Asn	His	Phe	Val	Lys	Leu	Leu	Lys	Asp	Ile	Ile
	50					55					60				

Ile	Cys	Phe	Leu	Asn	Ile	Arg	Ala	Lys	Asn	Val	Ala	Gln	Asn	Pro	Leu
65					70					75					80

Lys	His	His	Ser	Glu	Arg	Thr	Asp	Met	Lys	Thr	Leu	Ser	Arg	Lys	His
				85					90					95	

Trp	Ser	Ser	Val	Gln	Asp	Tyr	Lys	Cys	Ser	Ser	Phe	Ala	Asn	Thr	Ser
			100					105					110		

Ser	Lys	Phe	Arg	His	Leu	Leu	Ser	Asn	Asp	Gly	Tyr	Pro	Phe	Lys	
		115					120					125			

<210> 5264

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5264

Asp	Ser	Phe	Ile	Leu	His	Leu	Phe	Ile	Gln	Leu	Ile	Phe	Val	Glu	His
1				5					10					15	

Leu	His	Val	Pro	Asp	Ile	Ile	Lys	Cys	Trp	Val	Tyr	Gly	Asn	Glu	Gln
			20					25					30		

Asn	Arg	Gln	Gly	Pro	Cys	Pro	Phe	Arg	Gly	Asp	Arg				
		35						40							

4704

<210> 5265

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5265

Leu	Lys	Ile	Asp	Thr	Asn	Arg	Ile	Arg	Thr	Glu	Asn	Gly	Ser	Ile	Leu
1				5					10					15	

Pro	Ser	Val	Val	Pro	Gln	Glu	His	Asn	Thr	Leu	Pro	Val	Ser	Gln	Ala
			20					25					30		

Pro	Ser	Lys	Pro	Asn	Leu	Thr	Ser	Glu	His	Thr	Ser	Tyr	Gly	Leu	Ile
		35				40						45			

Leu	Thr	Lys	Pro	Tyr	Val	Arg	Pro	Leu	Pro	Pro	Ser	Tyr	Leu	Asp	Glu
	50					55					60				

Arg	Tyr	Leu	Xaa	Met	Pro	Lys	Arg	Arg	Lys	Phe	Leu	Thr	Asp	Arg	Val
65						70				75					80

Xaa	Ala	Cys	Ser	Asp	Gln	Asp	Asn	Val	Tyr	Lys	Lys	Ser	Val	Lys	Arg
				85					90					95	

Leu	Arg	Cys	Gly	Lys	Cys	Leu	Thr	Thr	Tyr	Cys	Asn	Ala	Xaa	Ala	Leu
			100					105					110		

Glu	Ala	His	Leu	Ala	Gln	Lys	Lys	Cys	Gln	Thr	Leu	Phe	Gly	Ile	
		115					120					125			

<210> 5266

4705

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5266

Leu Pro Gly Pro Gly Ala Cys Pro Glu Gly Val Trp Thr Leu Asn Ser
 1 5 10 15

Ala Pro Thr Gln Gly Pro Thr Ala Ala Pro Gly Ala Cys His Pro Gly
 20 25 30

Leu Leu Gly Arg Gly Gln Gly Leu Xaa Leu Gly Leu Pro Ser Thr Pro
 35 40 45

Gly Thr Pro Thr Pro Thr Pro His Thr Ser Leu Gly Ser Pro Val Ser
 50 55 60

Ser Asp Pro Val His Met Ser Pro Leu Glu Pro Arg Gly Gly Gln Gly
 65 70 75 80

Asp Gly Leu Ala Leu Val Leu Ile Leu Ala Phe Cys Val Ala Gly Ala
 85 90 95

Ala Ala Leu Ser Val Ala Ser Leu Cys Trp Cys Arg Leu Gln Arg Glu
 100 105 110

Ile Arg Leu Thr Gln Lys Ala Asp Tyr Ala Thr Ala Lys Ala Pro Gly
 115 120 125

Ser Pro Ala Ala Pro Arg Ile Ser Pro Gly Asp Gln Arg Leu Ala Gln
 130 135 140

Ser Ala Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Cys
 145 150 155 160

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Ser Ser
 165 170 175

Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly
 180 185 190

Leu Ala Pro Thr Gly Glu Met Glu Val Arg Asn Pro Leu Phe Asp His
 195 200 205

Ala Ala Leu Ser Ala Pro Leu Pro Ala Pro Ser Ser Pro Pro Ala Leu
 210 215 220

4706

Pro
225

<210> 5267
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5267
Xaa Phe Cys Val Ala Gly Ala Ala Ala Leu Ser Val Ala Ser Leu Cys
1 5 10 15

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln Lys Ala Asp Tyr
20 25 30

Ala Thr Ala Lys Ala Pro Gly Ser Pro Ala Ala Pro Arg Ile Ser Pro
35 40 45

Gly Asp Gln Arg Leu Ala Gln Ser Ala Glu Met Tyr His Tyr Gln His
50 55 60

Gln Arg Gln Gln Met Leu Cys Leu Glu Arg Xaa Glu Val Gly Xaa Xaa
65 70 75 80

Pro Thr Ser Arg Leu Gly His Trp His Leu Glu Gly Met Gly Arg Thr
85 90 95

Gln Arg Ser Pro Pro Thr Gln Ala

4707

100

<210> 5268

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5268

Glu Pro His Leu Ser Met Cys Lys Arg Cys Ile Pro Arg Pro Val Asn
 1 5 10 15
 Gly Ser Leu Arg Lys Phe Cys Met Gln Ala Val Phe Ser Ser Arg Thr
 20 25 30
 Asn Asn Trp Glu Ile Ser Lys Lys Leu His Arg Ser Pro Ala Trp Cys
 35 40 45
 Cys Ser Ser Leu Tyr Phe Thr Leu Asn Ser Gly Trp Glu Glu Lys Gly
 50 55 60
 Asn Lys Leu Trp Leu Phe Pro Ser Gln Lys Tyr Cys Gly Thr Ser Thr
 65 70 75 80
 Phe Gln Cys Phe Ala Phe
 85

<210> 5269

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5269

His Cys Glu Cys Cys Ser Asp Ile Leu Tyr Arg His Leu Thr Ala Gln
 1 5 10 15
 Asn Phe Cys Phe Ile Ser Cys Leu Thr Tyr Gln Lys Gly Arg Lys Val
 20 25 30
 Gly Met Ile Ser Lys Val Lys Lys Lys Lys Lys Lys Thr Phe Tyr
 35 40 45
 Arg Lys Leu Ile Asn Asn His Val Ile Leu Gln Phe Cys Tyr Gln Asn
 50 55 60
 Phe Pro Gln Glu Phe Ser Asn Ile Ser Ser Ala Met Trp Leu
 65 70 75

4708

<210> 5270

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5270

Arg	Pro	Val	Arg	Thr	Tyr	Xaa	Ala	Lys	Leu	Leu	Ala	Phe	Gly	Ile	Pro
1				5					10					15	

Leu	Asp	Asn	Val	Gly	Phe	Lys	Pro	Leu	Glu	Thr	Ala	Val	Ile	Gly	Gln
			20					25					30		

Thr	Leu	Gly	Gln	Gly	Pro	Ala	Gly	Leu	Val	Gly	Thr	Pro	Thr
		35					40					45	

<210> 5271

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5271

Lys	Ile	Phe	Cys	Arg	Asp	Lys	Leu	Ser	Leu	Cys	Phe	Pro	Gly	Trp	Ser
1				5					10					15	

Arg	Thr	Ser	Gly	Leu	Lys	Arg	Phe	Phe	Cys	Leu	Ser	Leu	Gln	Asn	Tyr
			20					25					30		

Trp	Asp	Tyr	Ser	Met	Ser	His	His	Ala	Gln	Leu	Tyr	Ser	Leu	Leu	Ile
		35					40					45			

Tyr

<210> 5272

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5272

Lys Glu Ala Val Phe Pro Arg Lys Thr His Gln Pro Gly Leu Arg Lys

4709

1	5	10	15
Lys Met Gly Pro Pro Ser Glu Gly Met Trp Trp Trp Lys His Ser Thr	20	25	30
Gly Pro Gly Phe Gly Ala Ser Phe Pro Pro Pro Gln Pro Met Leu Thr	35	40	45
Leu Pro Gly Lys Ala Pro Gly Ser Pro Gln Gly Arg Arg Lys Lys Arg	50	55	60
Gly Leu Cys Ser	65		

<210> 5273

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5273

Arg Thr Lys Arg Thr His Ala Gly Gly Arg Ser Arg Xaa Val Asp Pro	1	5	10	15
Arg Ala Ala Glu Phe Gly Thr Ala Arg Leu Gly Ser Leu Cys Lys Thr	20	25	30	
Ser Pro Phe Leu Glu Met Met Met Pro Ser Lys Pro Gly Pro Gly Pro	35	40	45	
Asp Leu Gln Ala His Thr Trp Pro Val Ala Leu Arg Ser Pro Gly	50	55	60	

<210> 5274

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

4710

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (256)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5274
 Cys Ser Ile Asn Gly Thr Leu Tyr Gln Pro Gly Ala Val Val Ser Ser
 1 5 10 15
 Ser Leu Cys Glu Thr Cys Arg Cys Glu Leu Pro Gly Gly Pro Pro Ser
 20 25 30
 Asp Ala Phe Val Val Ser Cys Glu Thr Gln Ile Cys Asn Thr His Cys
 35 40 45
 Pro Val Gly Phe Glu Tyr Gln Glu Gln Ser Gly Gln Cys Cys Gly Thr
 50 55 60
 Cys Val Gln Val Ala Cys Val Thr Asn Thr Ser Lys Ser Pro Ala His
 65 70 75 80
 Leu Phe Tyr Pro Gly Glu Thr Trp Ser Asp Ala Gly Asn His Cys Val
 85 90 95
 Thr His Gln Cys Glu Lys His Gln Asp Gly Leu Val Val Val Thr Thr
 100 105 110
 Lys Lys Ala Cys Pro Pro Leu Xaa Cys Ser Leu Asp Glu Ala Arg Met
 115 120 125
 Ser Lys Asp Gly Cys Cys Arg Phe Cys Pro Xaa Pro Xaa Pro Pro Tyr
 130 135 140
 Gln Asn Gln Ser Thr Cys Ala Val Tyr His Arg Ser Leu Ile Ile Gln
 145 150 155 160
 Gln Gln Gly Cys Ser Ser Ser Glu Pro Val Arg Leu Ala Tyr Cys Arg
 165 170 175
 Gly Asn Cys Gly Asp Ser Ser Ser Met Tyr Ser Leu Glu Gly Asn Thr
 180 185 190

4711

Val Glu His Arg Cys Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg
 195 200 205

Asn Val Thr Leu His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr
 210 215 220

Thr Glu Val Glu Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro
 225 230 235 240

Gly Asp Thr Gln His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Xaa
 245 250 255

Ala

<210> 5275
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 5275
 Asn Phe Lys Ser Ile His Phe Thr His Leu Phe Cys Leu Phe Thr Lys
 1 5 10 15

Leu Phe Leu Lys Arg Ala Leu Cys His Gln Asn Met Leu Asp Leu Ile
 20 25 30

Ile Leu Arg Ser Leu Leu Ser Lys Tyr Leu Val Tyr Ile Phe Ser Leu
 35 40 45

Ala Asn Leu Cys Val Tyr Ile His Ser Ile
 50 55

<210> 5276
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 5276
 Asn Ser Ala Glu Ala Val Glu Arg Asn Leu Val Arg Val Ala Glu Val
 1 5 10 15

Trp Leu Asp Glu Tyr Lys Glu Leu Phe Tyr Gly His Gly Asp His Leu
 20 25 30

Ile Asp Gln Gly Leu Asp Val Gly Asn Leu Thr Gln Gln Arg Glu Leu

4712

35	40	45
Arg Lys Lys Leu Lys Cys Lys Ser Phe Lys Trp Tyr Leu Glu Asn Val		
50	55	60
Phe Pro Asp Leu Arg Ala Pro Ile Val Arg Ala Ser Gly Val Leu Ile		
65	70	75
Asn Val Ala Leu Gly Lys Cys Ile Ser Ile Glu Asn Thr Thr Val Ile		
85	90	95
Leu Glu Asp Cys Asp Gly Ser Lys Glu Leu Gln Gln Phe Asn Tyr Thr		
100	105	110
Trp Leu Arg Leu Ile Lys Cys Gly Glu Trp Cys Ile Ala Pro Ile Pro		
115	120	125
Asp Lys Gly Ala Val Arg Leu His Pro Cys Asp Asn Arg Asn Lys Gly		
130	135	140
Leu Lys Trp Leu His Lys Ser Thr Ser Val Phe His Pro Glu Leu Val		
145	150	155
Asn His Ile Val Phe Glu Asn Asn Gln Gln Leu Leu Cys Leu Glu Gly		
165	170	175
Asn Phe Ser Gln Lys Ile Leu Lys Val Ala Ala Cys Asp Pro Val Lys		
180	185	190
Pro Tyr Gln Lys Trp Lys Phe Glu Lys Tyr Tyr Glu Ala		
195	200	205

<210> 5277

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4713

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5277

Pro	Leu	Ala	Met	Asp	Ser	Gln	Lys	Glu	Ala	Leu	Gln	Arg	Ile	Ile	Ser
1				5					10					15	

Thr	Leu	Ala	Asn	Lys	Asn	Asp	Glu	Ile	Gln	Asn	Phe	Ile	Asp	Thr	Leu
			20					25					30		

His	His	Thr	Leu	Lys	Gly	Val	Gln	Glu	Asn	Ser	Ser	Asn	Ile	Leu	Ser
		35					40					45			

Glu	Leu	Asp	Glu	Glu	Phe	Asp	Ser	Leu	Tyr	Ser	Ile	Leu	Asp	Glu	Val
	50					55					60				

Lys	Glu	Ser	Met	Ile	Asn	Cys	Ile	Lys	Gln	Glu	Gln	Ala	Arg	Lys	Ser
65					70					75				80	

Gln	Glu	Leu	Gln	Ser	Gln	Ile	Ser	Gln	Cys	Asn	Asn	Ala	Leu	Glu	Asn
				85					90					95	

Ser	Glu	Glu	Leu	Leu	Glu	Phe	Ala	Thr	Arg	Ser	Leu	Asp	Ile	Lys	Glu
			100					105					110		

Pro	Glu	Glu	Phe	Ser	Lys	Ala	Ala	Arg	Gln	Ile	Lys	Asp	Arg	Val	Thr
			115				120					125			

Met	Ala	Ser	Ala	Phe	Arg	Leu	Ser	Leu	Lys	Pro	Lys	Val	Ser	Asp	Asn
	130					135					140				

Met	Thr	His	Leu	Met	Val	Asp	Phe	Ser	Gln	Glu	Arg	Gln	Met	Leu	Gln
145					150					155				160	

Thr	Leu	Lys	Phe	Phe	Ala	Ser	Pro	Gln	Xaa	Ser	Xaa	Ile	Asp	Pro	Val
			165						170					175	

Xaa	Ile	Val	Trp	Val	Gly	Xaa	Ile	Thr	Ser	Cys	Xaa
		180					185				

4714

<210> 5278

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5278

Phe	Lys	Ala	Ile	Asp	Asp	Leu	Tyr	Val	Gln	Ile	Lys	Glu	Lys	His	Val
1				5					10					15	

Trp	Glu	Lys	Asp	Cys	His	Phe	Tyr	Val	Asn	Xaa	Lys	Val	Leu	Ser	Glu
			20					25					30		

Leu	Tyr	Leu	Lys	Lys	Arg	Arg	Phe	Tyr	Lys	Ser	Lys	Glu	Ser	Leu	Asn
			35				40					45			

Thr	Met	Asn	Lys	Gly
				50

<210> 5279

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5279

Ile	Ile	Tyr	Ile	Phe	Leu	Lys	Pro	Glu	Leu	Lys	Met	Leu	Gln	Ala	Thr
1				5					10					15	

Gly	Tyr	Ser	Phe	Ile	Ser	Gly	Ser	Leu	Thr	Val	Val	Ser	Leu	Gly	Gln
			20					25					30		

Ala	Ile	Ser	Leu	Lys	Glu	Lys	Leu	Ile	Met	Tyr	Val	Gly	Cys	Gln	Asp
			35				40					45			

His	Cys	Leu	Glu	Ser	Lys	Cys	Asp	Phe	Tyr	Phe
			50			55				

<210> 5280

<211> 84

<212> PRT

<213> Homo sapiens

4715

<400> 5280

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Asn Leu Ser Val Ala Leu Cys Leu Cys Ser Pro Gln Arg Lys Val Thr
 1              5              10              15

Arg Arg Gly Val Gln Phe Pro Arg Pro Gly Pro Tyr Arg Pro Pro Thr
              20              25              30

Gly Ala Pro Leu Cys Cys Tyr Ser Phe Cys Gln Leu Glu Ala Asp Gly
              35              40              45

Asp Gln Ala Leu Glu Lys Ala Arg Pro Glu Asp Gly Arg Phe Leu Ser
              50              55              60

Gly Gly Glu Leu Cys Leu Thr Asp Leu Asn Ile His Ser Val Leu Leu
 65              70              75              80

Cys Glu Asn Lys

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<210> 5281

<211> 114

<212> PRT

<213> Homo sapiens

<400> 5281

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Ser Lys Gly Ile Leu Val Phe Asn Leu Asp Arg Leu Arg Cys Gln Glu
 1              5              10              15

Lys Leu Gln Ser Gln Val Ser Arg Gln Pro Pro Gly Trp Ser Leu Ala
              20              25              30

Pro Pro Pro Pro Pro Leu Pro Thr Phe Ser Asn Val Leu His Ala Gly
              35              40              45

Ser Trp Gly Val Trp Gly Lys Gly Leu Pro Ala Ser Phe Arg Arg Leu
              50              55              60

Arg Phe Gly Gly Lys Ile Asn Leu Gly Asp His Pro Gly Arg Gly Ala
              65              70              75              80

Ser Val Asp Arg Trp Glu Glu Lys Lys Thr Ser Tyr Leu Gly Gly Gly
              85              90              95

Thr Ser Arg Phe Leu Ile Leu Ser Phe Phe Val Ala Pro Pro His Cys
              100              105              110

Pro Phe

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4716

<210> 5282

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5282

Leu Lys Leu Asn Thr Glu Arg Asp Phe Leu Ser Cys Lys Lys Phe Ile
1 5 10 15

Asn Ala Lys Gln Lys Glu Asn Ile Tyr Phe Leu Ser Leu Gln Glu Lys
20 25 30

Gln Thr Lys His Tyr Ser Phe Ile Ala Ala Ile Leu Leu Thr Lys Gln
35 40 45

Xaa Val His Asn Ile Lys Asn Leu Thr
50 55

<210> 5283

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5283

Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala
1 5 10 15

Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Asp Phe
20 25 30

Leu Cys Met Cys Phe Phe Pro Asp Ser Tyr Ile Ile Gly Tyr Leu Pro
35 40 45

Thr Thr Pro Tyr Thr Tyr Tyr Phe Gln Asn Leu Ser Arg
50 55 60

<210> 5284

<211> 92

<212> PRT

<213> Homo sapiens

4717

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5284
 Lys Thr Tyr Lys Ile Gln Arg Ser Tyr Arg Ser Cys Ala Leu Tyr Asn
 1 5 10 15
 Val Ile Ile Val Thr Lys Gly Leu Ser Thr Trp Lys Phe Leu Asn Asp
 20 25 30
 Leu Leu Asn Asn Ser Phe Lys Gly Glu Ile Lys Ile Asn Cys Lys Leu
 35 40 45
 Phe Arg Ile Asn Lys Asn Phe Ser Lys Ala Glu Glu Phe Tyr Xaa Arg
 50 55 60
 Gly Val Arg Gly Asn Cys Ile Asp Phe Xaa Leu Leu Xaa Xaa Glu Glu
 65 70 75 80

Arg Lys Xaa Lys Glu Xaa Ile Lys Xaa Phe Lys Ser
85 90

<213> Homo sapiens

Cys Glu Asn Ser Gln Ser Arg Asn Ala Glu Leu Cys Glu Ile Pro Pro
195 200 205

4719

Thr Ser Asp Thr Lys Ser Asp Thr Ala Thr Gly Gly Glu Ser Ala Gly
 210 215 220
 His Ala Thr Ser Ser Gln Glu Pro Ser Gly Cys Ser Asp Gln Arg Pro
 225 230 235 240
 Ala Glu Asp Leu Asn Ile Arg Val Glu Arg Leu Thr Lys Lys Leu Glu
 245 250 255
 Glu Arg Arg Glu Glu Lys Arg Lys Glu Glu Glu Gln Arg Glu Ile Lys
 260 265 270
 Lys Glu Ile Glu Arg Arg Lys Thr Gly Lys Glu Met Leu Asp Tyr Lys
 275 280 285
 Arg Lys Gln Glu Glu Glu Leu Thr Lys Arg Met Leu Glu Glu Arg Asn
 290 295 300
 Arg Glu Lys Ala Glu Asp Arg Ala Ala Arg Glu Arg Ile Lys Gln Gln
 305 310 315 320
 Ile Ala Leu Asp Arg Ala Glu Arg Ala Ala Arg Phe Ala Lys Thr Lys
 325 330 335
 Glu Glu Val Glu Ala Ala Lys Ala Ala Ala Leu Leu Ala Lys Gln Ala
 340 345 350
 Glu Met Glu Val Lys Arg Glu Ser Tyr Ala Arg Glu Arg Ser Thr Val
 355 360 365
 Ala Arg Ile Gln Phe Arg Leu Pro Asp Gly Ser Ser Phe Thr Asn Gln
 370 375 380
 Phe Pro Ser Asp Ala Pro Leu Glu Glu Ala Arg Gln Phe Ala Ala Gln
 385 390 395 400
 Thr Val Gly Asn Thr Tyr Gly Asn Phe Ser Leu Ala Thr Met Phe Pro
 405 410 415
 Arg Arg Glu Phe Thr Lys Glu Asp Tyr Lys Lys Lys Leu Leu Asp Leu
 420 425 430
 Glu Leu Ala Pro Ser Ala Ser Val Val Leu Leu Pro Ala Gly Arg Pro
 435 440 445
 Thr Ala Ser Ile Val His Ser Ser Ser Gly Asp Ile Trp Thr Leu Leu
 450 455 460
 Gly Thr Val Leu Tyr Pro Phe Leu Ala Ile Trp Arg Leu Ile Ser Asn
 465 470 475 480

4720

Phe Leu Phe Ser Asn Pro Pro Pro Thr Gln Thr Ser Val Arg Val Thr
485 490 495

Ser Ser Glu Pro Pro Asn Pro Ala Ser Ser Ser Lys Ser Glu Lys Arg
500 505 510

Glu Pro Val Arg Lys Arg Val Leu Glu Lys Arg Gly Asp Asp Phe Lys
515 520 525

Lys Glu Gly Lys Ile Tyr Arg Leu Arg Thr Gln Asp Asp Gly Glu Asp
530 535 540

Glu Asn Asn Thr Trp Asn Gly Asn Ser Thr Gln Gln Met
545 550 555

<210> 5286

<211> 43

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5286

Asn Asp Gln Asn Pro Glu Ser Gln Trp Ser Asn Asn Lys His Thr Gln
1 5 10 15

Ile Asp Cys Leu Ile Asn Ser Phe Xaa Leu Val Phe Lys Ser Asn Thr
20 25 30

Phe Phe Lys Ser Pro Leu Xaa Lys Met Ile Ile
35 40

<210> 5287

$\langle 211 \rangle$ 143

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

4721

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5287

Thr	Gly	Trp	Xaa	Xaa	Cys	Pro	Xaa	Pro	Gly	Pro	Gly	Arg	Arg	Thr	Met
1				5					10					15	

Ser	Arg	Gln	Lys	Glu	Thr	Leu	Gln	Ser	Ala	Phe	Pro	Ser	Met	Cys	Ala
		20						25					30		

Leu	Cys	Pro	Ser	Glu	Pro	Ala	Asp	Xaa	Arg	Gly	Gly	Lys	Asp	Thr	Val
		35					40					45			

Leu	Asn	Glu	Gln	Asn	Leu	Gln	Asp	Thr	Gln	Ser	Cys	Leu	Phe	Ala	Thr
	50					55					60				

Trp	Pro	Tyr	Ala	Cys	Pro	Val	Phe	Ser	Leu	Lys	Ala	Phe	Thr	His	Ala
65					70					75					80

Arg	Ala	Val	Thr	Trp	Asn	Val	Leu	Ser	Ile	Thr	Pro	Ala	Val	Met	Pro
				85					90					95	

Ser	Thr	Glu	Leu	Asp	Gly	Arg	Pro	Leu	His	Gly	Ser	Leu	Lys	Arg	Ser
		100						105					110		

His	Pro	Ser	Asn	Trp	Val	Cys	His	Arg	His	Thr	Gly	Ser	Cys	Leu	Pro
		115					120					125			

Val	Leu	Pro	Val	Val	Ile	Val	Met	Arg	Ile	Val	Val	Leu	His	Pro
	130					135					140			

<210> 5288

<211> 48

<212> PRT

4722

<213> Homo sapiens

<400> 5288

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Ser Gly Gln Glu Pro Gly Phe Gln Gln Arg Glu Leu Glu Asn Glu Pro
 1             5             10             15

Arg Gly Ala Gly Ala Gly Gly Val Gly Glu Cys Gln Arg Ala Gly Met
          20             25             30

Asn Trp Gln Val Ala Trp Arg Gly Gly Leu Val Pro Lys Pro Val Leu
      35             40             45

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<210> 5289

<211> 232

<212> PRT

<213> Homo sapiens

<400> 5289

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Pro Ala Ser Ala Thr Thr Arg Thr Gly Pro Arg Pro Gly Pro Ala Pro
 1             5             10             15

Arg Cys Pro Leu Pro Ala Pro Gly His Ser Cys Thr Gln Ala Pro Pro
          20             25             30

Arg Glu His Thr Ala Val His Thr Arg Glu Lys Gln Gln Leu Ala Ser
      35             40             45

Leu Val Gly Thr Met Leu Ala Tyr Ser Leu Thr Tyr Arg Gln Glu Arg
      50             55             60

Thr Pro Asp Gly Gln Tyr Ile Tyr Arg Leu Glu Pro Asn Val Glu Glu
      65             70             75             80

Leu Cys Arg Phe Pro Glu Leu Pro Ala Arg Lys Pro Leu Thr Tyr Gln
          85             90             95

Thr Lys Gln Leu Ile Ala Arg Glu Ile Glu Val Glu Lys Met Arg Arg
          100             105             110

Ala Glu Ala Ser Ala Arg Val Glu Asn Ser Pro Gln Val Asp Gly Ser
          115             120             125

Pro Pro Gly Leu Glu Gly Leu Leu Gly Gly Ile Gly Glu Lys Gly Val
      130             135             140

His Arg Pro Ala Pro Arg Asn His Glu Gln Arg Leu Glu His Ile Met

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4723

145 150 155 160
 Arg Arg Ala Ala Arg Glu Glu Gln Pro Glu Lys Asp Phe Phe Gly Arg
 165 170 175
 Val Val Val Arg Ser Thr Ala Val Pro Ser Ala Gly Asp Thr Ala Pro
 180 185 190
 Glu Gln Asp Ser Val Glu Arg Arg Met Gly Thr Ala Val Gly Arg Ser
 195 200 205
 Glu Val Trp Phe Arg Phe Asn Glu Gly Val Ser Asn Ala Val Arg Arg
 210 215 220
 Ser Leu Tyr Ile Arg Asp Leu Leu
 225 230

<210> 5290
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 5290
 Ser Ile Thr Cys His Arg Glu Ser Glu Phe Leu Tyr Cys Leu Pro Ala
 1 5 10 15
 Ala Arg Thr Lys Ser Glu Trp Trp Gly Pro Arg Ser Ser Gln Leu Gly
 20 25 30
 Glu Lys Ala Leu Pro Asp Pro Gly Thr Arg Gly Leu Gly Gln Glu Ala
 35 40 45
 Gly Arg Met Gly Gly Cys Asp His Arg His Thr His Thr Arg Ser Leu
 50 55 60
 Ser Ser Gly Lys Gly Phe Pro Glu Ala Phe Ala His Thr Leu Asn Glu
 65 70 75 80
 Val Phe Ser Cys Gln Ala Lys Pro Pro Glu Glu Lys
 85 90

<210> 5291
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>

4724

<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5291
Thr Ile Lys Cys Leu Leu Leu Tyr Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
20 25 30
Lys Lys Lys Lys Gly Xaa Pro Xaa
35 40

<210> 5292
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5292
Val Glu Asn Leu Gln Arg Asn Asp Gly Cys Lys Trp Thr Cys Lys Pro
1 5 10 15
Lys Leu Gly Ile Gly Glu Val Arg Leu Thr Arg Leu Leu Val Arg Val
20 25 30
Leu Leu Asn Ser Leu Leu Met Arg Arg Cys Leu Asp Lys Tyr Lys Leu
35 40 45
Arg Lys
50

<210> 5293
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

4725

<400> 5293

Lys Pro Leu Ala Lys Xaa Arg Gly Ile Phe Phe Phe Ile Phe Lys Cys
1 5 10 15

Leu Gly Thr Lys Pro Lys Ser Lys Arg Leu Thr Lys His Val Ser Leu
20 25 30

Lys Ala Thr Cys Ile Leu Gln Tyr Asn Ile Lys Leu Phe Asn Leu Arg
35 40 45

Asn Leu Val Leu Leu Ile Cys Thr Phe
50 55

<210> 5294

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5294

Arg Thr Phe Met Lys Arg Trp Asn Cys Ser Tyr Lys Phe Phe Leu Leu
1 5 10 15

Leu Leu Phe Leu Asn Met Pro Trp Asn Asn Ser Thr Ile Phe Ser Pro
20 25 30

Ser Ile Asn Leu Ser Asn Lys Ala
35 40

<210> 5295

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

4726

<400> 5295

Asn Cys Glu Asp Ile Leu Lys Leu Cys Leu Val Tyr Lys Tyr Lys Asp
 1 5 10 15

Phe His Thr Asp Asn Tyr Gln Ile Pro Asn Thr Phe Thr Gly Lys Lys
 20 25 30

Pro Ser Val Lys Xaa Leu Pro Gly Ser Ser Ser Leu Lys Phe Ser Xaa
 35 40 45

Xaa

<210> 5296

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5296

Thr Thr Leu Xaa Arg Arg Ser Ser Leu Leu Asn Tyr Ile His Pro Asp
 1 5 10 15

Cys Gly Asp Asn His Thr Pro Gln Phe Arg Xaa Tyr Tyr Tyr Tyr Gln

4727

20 25 30

Ser Val Gln Gly Leu Cys Trp Leu Ile Leu Phe Phe Tyr Pro Leu Tyr
35 40 45

His Tyr Ser Pro Ile Ser Ser Xaa Thr Phe Ile Ser Lys Asn Leu Ile
50 55 60

Val Trp His Leu Ser Leu Asp Met Glu Cys Phe Phe Xaa Lys Xaa
65 70 75

<210> 5297

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5297

Met Phe Gly Leu Tyr Leu Val Leu Asp Pro Glu Leu Pro Phe Ser Lys
1 5 10 15

Tyr Leu Asn Asp Tyr Tyr Tyr Phe Ile Ser Leu Phe Tyr Thr His Thr
20 25 30

Arg Thr His Thr His Arg Glu Met Leu Phe Met Arg Phe Cys Ile Phe
35 40 45

His Ile Leu His Ile Leu Tyr Met Ile Asp Glu
50 55

<210> 5298

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

4728

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5298

Gln	Gly	Phe	Glu	Arg	Gln	Thr	Thr	Ala	Ala	Val	Gly	Val	Leu	Lys	Ala
1				5					10					15	
Val	His	Cys	Gly	Glu	Trp	Pro	Asp	Gln	Pro	Arg	Leu	Thr	Lys	Asp	Val
			20					25					30		
Ile	Cys	Phe	His	Ala	Glu	Asp	Phe	Leu	Glu	Val	Val	Gln	Arg	Met	Gln
		35					40					45			
Leu	Asp	Leu	His	Glu	Pro	Pro	Leu	Ser	Gln	Cys	Val	Gln	Trp	Val	Asp
	50					55					60				
Asp	Ala	Lys	Leu	Asn	Gln	Leu	Arg	Arg	Glu	Gly	Ile	Arg	Tyr	Ala	Arg
65					70					75					80
Ile	Gln	Leu	Tyr	Asp	Asn	Asp	Ile	Tyr	Phe	Ile	Pro	Arg	Asn	Val	Val
				85					90					95	
His	Gln	Phe	Lys	Thr	Val	Ser	Ala	Val	Cys	Xaa	Leu	Ala	Trp	Xaa	Ile
			100					105					110		
Arg	Leu	Lys	Leu	Tyr	His	Ser	Glu	Glu	Asp	Xaa	Ser	Gln	Asn	Thr	Ala
		115					120					125			
Thr	His	Glu	Thr	Gly	Thr	Ser	Ser	Asp	Ser	Thr	Ser	Ser	Val	Leu	Gly
		130				135					140				
Pro	His	Thr	Asp	Asn	Met	Ile	Cys	Ala	Val	Ser	Lys	Pro	Pro	Trp	Ile
145					150					155					160
Leu	Phe	Phe	Gln	Ile	Asn	Phe	Ile	Leu	Asn	Met	Asn	Tyr	Ser	Arg	Leu
				165					170					175	
Asn	Met	Asn	Leu	Leu	His	Leu									
			180												

<210> 5299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4729

<400> 5299

Ile Ser His Phe Trp Glu Gln Thr Pro Ile Lys Val Pro Gly Asp Tyr
1 5 10 15

Leu Gln Trp Xaa Ala Glu Gln Lys Ile Ser Ala Val Leu Ile Ile Val
20 25 30

Val Thr Trp Val Thr Pro Pro Asn Thr Leu Cys Glu Leu Ser Glu Ile
35 40 45

Phe Gly Asn Phe Leu Met Tyr Ile Leu Glu Ile Leu Asn Val Gln Ile
50 55 60

Trp Ser Ser Ile
65

<210> 5300

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5300

Trp Gln Ser Val His Arg Ser Trp Leu Leu Ser Leu Leu Asn Leu Cys
1 5 10 15

Lys Arg Ser Leu Ser Asp Glu Gly Arg Ile Met Val Leu Leu Ala Leu
20 25 30

Ala Phe Pro Phe Cys Asp Leu Lys Ala Ser Ser Leu Arg Pro His Ser
35 40 45

Met Ala Pro Val Pro Tyr Ser His Ser Cys Leu Leu Lys Leu Pro Thr
50 55 60

Leu Leu Asn Cys Phe Trp Gly Glu Glu His Phe Phe Leu Lys Gln Asn
65 70 75 80

Arg Tyr Met Lys Gln Tyr Thr Gly Ile Asn Thr Asn Ile
85 90

<210> 5301

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4730

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5301

Phe	Ser	Pro	Lys	Ala	Val	Leu	Leu	Arg	Leu	Cys	Phe	Thr	Ser	Ile	Tyr
1				5					10					15	

Lys	Leu	Tyr	Val	Lys	Cys	Cys	His	Lys	Glu	Val	Ser	Glu	Ala	Val	Gly
			20					25					30		

His	Thr	Gln	Gly	Arg	Ala	Glu	Lys	Tyr	Leu	Val	Val	Cys	Xaa	Xaa	Xaa
		35					40					45			

Lys	Pro	Trp	Met	Ala	Ala	Ala	Thr	Xaa	Pro	Ala	Tyr	Pro	Phe	Thr	Ala
	50					55					60				

Xaa	Val	Tyr	Ser	Leu	Arg	Xaa	Leu	Thr	Thr	Arg
65					70					75

<210> 5302

<211> 82

<212> PRT

<213> Homo sapiens

4731

<400> 5302

Glu Leu Pro Ser Lys Arg Gln Ala Phe Val Ile Ser Met Glu Phe Glu
 1 5 10 15
 Gly Ser Trp Thr Ile Cys Lys Asp Ile Leu Thr Cys Ser Leu Arg Ser
 20 25 30
 Leu Ser Ser Ser Lys Arg Met Ala Arg Val Cys Gly Ile Ile Leu Ser
 35 40 45
 Thr Tyr Cys Cys Phe Phe Val Val Leu Leu Met Gln Val Ile Ile Tyr
 50 55 60
 Phe Leu Gly Val Ile Trp Arg Lys Ser Met Arg Gln Ala Cys Phe Ser
 65 70 75 80
 Pro Val

<210> 5303

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5303

Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr
 1 5 10 15
 Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr
 20 25 30
 Tyr Leu Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu
 35 40 45
 Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
 50 55 60
 Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp
 65 70 75 80
 Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp
 85 90 95
 Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr

4732

100	105	110
Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu		
115	120	125
Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr		
130	135	140
Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro		
145	150	155
Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr Thr		
165	170	175
Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu Lys		
180	185	190
Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys Leu		
195	200	205
Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Xaa Gln Trp Asn Trp		
210	215	220
Ile Ser Thr Lys His Ile Trp Arg Arg Leu Gln Lys Glu Arg Glu Pro		
225	230	235
Lys Cys Leu Gly Ala Leu Lys Gly Gly Trp Ile Arg Leu Ser Leu Cys		
245	250	255
Ser Pro Gly Ala Lys Gly Arg Val Leu Pro Glu Thr Gly Pro Glu Asp		
260	265	270

<210> 5304

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5304

Phe	Leu	Gly	Ala	Pro	Ser	Ile	Cys	Ala	Gly	Asp	Glu	Glu	Gly	Thr	Glu
1				5					10					15	

Ile	Asp	Thr	Leu	Gln	Phe	Arg	Leu	Gln	Val	Arg	Cys	Thr	Arg	Glu	Pro
			20					25					30		

Pro	Cys	Cys
		35

4733

<210> 5305

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5305

Asp	Phe	Leu	Lys	Gly	Ser	Lys	Ala	Phe	Ala	Cys	Tyr	Leu	Cys	Phe	Phe
1				5					10					15	

Ser	Pro	Lys	Pro	Lys	Gln	Lys	Ile	Met	Pro	Leu	Cys	Gln	Thr	Phe	Leu
			20					25					30		

Leu	Gly	Thr	Ser	Thr	Xaa	Ser	Gln	Leu	Xaa	Lys	Tyr	Asn	Val	Tyr	Ile
		35					40					45			

Ala	Gln	Phe	Tyr	Asn	Leu	Ser	Met	Ala	Gln	Ile	Leu	Glu	Thr	Tyr	Lys
	50					55					60				

Leu	Asp	Asp	His	Arg	Asp	Ile	Val	Val	Asn	Ile	Trp	Ala	Trp	Asn	Gln
65					70					75					80

Arg	Thr	Leu	Gly	Ser	Asn	Leu	Ser	Phe	Lys	Ser	Lys	Lys	Leu	Asn	Ser
				85					90					95	

Leu Ala Glu

<210> 5306

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

4734

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5306

Arg	Phe	Asn	Phe	Pro	Ala	Ser	Pro	Glu	Ala	Arg	Tyr	Gly	His	Asn	Thr
1				5				10						15	

Lys	Phe	Cys	Pro	Arg	Arg	Leu	Ser	Lys	Ile	Val	Trp	Asp	Phe	Gln	Glu
			20					25					30		

Met	Phe	Leu	Lys	Ser	Xaa	Ala	Gly	Leu	Ser	Ser	Cys	Leu	Leu	Pro	Leu
			35				40					45			

Cys	Trp	Leu	Glu	Xaa	Lys	Asp	His	Gly	Arg	Arg	Pro	Ser	Ser	His	Pro
	50					55					60				

Gly	Arg
65	

<210> 5307

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5307

Val	Leu	Tyr	His	Cys	Ala	Ser	Arg	Tyr	Arg	Arg	Arg	Ala	Arg	Gln	Thr
1				5				10						15	

Cys	Xaa	Pro	Ser	Tyr	Thr	Arg	Ser	Ala	Asp	Leu	Pro	Ser	Arg	Thr	Pro
			20					25					30		

Pro	Val	Glu	Asp	Leu	Leu	Glu	Leu	Ser	Arg	Ala	Phe	Trp	Val	Gly	Ala
		35					40					45			

Asp	Gly	Gly	Gly	Arg	Val	Arg	Val	Leu	Gly	Gly	Thr	Glu	Ala	His	Glu
	50					55					60				

Asp	Gly	Ile	Pro	Pro	Glu	Ser	Met	Asp	His	Tyr	Ala	Asp	Gly	His	Arg
	65					70				75				80	

Pro	Gln	His	Cys	His	Leu	Gly	Tyr	Arg	Cys	His	Gly	Arg	Pro	Gln	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4735

	85		90		95
Glu Gly Leu Pro Arg Cys Leu Lys Val Pro Pro Val Asn Leu Ser Ser	100	105	110		
Val Ser Val Pro Phe Pro Val Thr His Arg Ala Gly Met Glu Phe Asn	115	120	125		
Gly Cys Ser Gly Gln Thr Leu Val His Gly Gln Thr Ser Leu Leu Trp	130	135	140		
Ile Leu Gln Asp	145				

<210> 5308
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 5308
 Met Lys Ile Phe Lys Leu Glu Leu Glu Glu Gly Val Val Glu Glu Gln
 1 5 10 15
 Gly Val Leu Leu His Pro Glu Val Val Gly Leu Leu Leu Pro Ala Val
 20 25 30
 Glu Pro Val Ile His Arg Glu Glu Val Leu Asp Gln Gln Glu Ala Phe
 35 40 45
 Glu Val Arg Glu Glu Val Pro Asn Asn Lys Glu Ala Ala Gly Arg Glu
 50 55 60
 Lys Gly Ser Arg Pro Val Leu Thr Cys Tyr Asn Glu Asp
 65 70 75

<210> 5309
 <211> 704
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

4736

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5309

Xaa	Gly	Xaa	Lys	Gly	Arg	Glu	Gly	Lys	Gly	Gly	Ser	Arg	Gly	Gly	Ala
1				5					10					15	

Arg	Ala	His	Arg	Glu	Arg	Ala	Arg	Arg	Arg	Val	Glu	Leu	Asp	Arg	Val
			20				25						30		

Cys	Cys	Gln	Arg	Arg	Glu	Leu	Arg	Pro	Pro	Phe	Tyr	Asn	Ser	Ser	Thr
		35					40					45			

Arg	Ala	Gly	His	Arg	Glu	Gln	Arg	Ala	Arg	Val	Ser	Arg	Asn	Pro	Ile
	50					55					60				

Pro	Ser	Asp	Arg	Ile	Ser	Pro	Pro	Gln	Pro	Asn	Gly	Glu	Ile	Ser	Gly
65					70					75					80

Asn	Met	Ala	Thr	Glu	His	Val	Asn	Gly	Asn	Gly	Thr	Glu	Glu	Pro	Met
				85				90						95	

Asp	Thr	Thr	Ser	Ala	Val	Ile	His	Ser	Glu	Asn	Phe	Gln	Thr	Leu	Leu
			100					105					110		

Asp	Ala	Gly	Leu	Pro	Gln	Lys	Val	Ala	Glu	Lys	Leu	Asp	Glu	Ile	Tyr
		115					120					125			

Val	Ala	Gly	Leu	Val	Ala	His	Ser	Asp	Leu	Asp	Glu	Arg	Ala	Ile	Glu
	130					135					140				

Ala	Leu	Lys	Glu	Phe	Asn	Glu	Asp	Gly	Ala	Leu	Ala	Val	Leu	Gln	Gln
145					150					155					160

Phe	Lys	Asp	Ser	Asp	Leu	Ser	His	Val	Gln	Asn	Lys	Ser	Ala	Phe	Leu
				165					170					175	

Cys	Gly	Val	Met	Lys	Thr	Tyr	Arg	Gln	Arg	Glu	Lys	Gln	Gly	Thr	Lys
			180					185					190		

Val	Ala	Asp	Ser	Ser	Lys	Gly	Pro	Asp	Glu	Ala	Lys	Ile	Lys	Ala	Leu
		195					200					205			

Leu	Glu	Arg	Thr	Gly	Tyr	Thr	Leu	Asp	Val	Thr	Thr	Gly	Gln	Arg	Lys
	210					215						220			

Tyr	Gly	Gly	Pro	Pro	Pro	Asp	Ser	Val	Tyr	Ser	Gly	Gln	Gln	Pro	Ser
225					230					235					240

Val	Gly	Thr	Glu	Ile	Phe	Val	Gly	Lys	Ile	Pro	Arg	Asp	Leu	Phe	Glu
				245					250					255	

4737

Asp	Glu	Leu	Val	Pro	Leu	Phe	Glu	Lys	Ala	Gly	Pro	Ile	Trp	Asp	Leu	260	265	270
Arg	Leu	Met	Met	Asp	Pro	Leu	Thr	Gly	Leu	Asn	Arg	Gly	Tyr	Ala	Phe	275	280	285
Val	Thr	Phe	Cys	Thr	Lys	Glu	Ala	Ala	Gln	Glu	Ala	Val	Lys	Leu	Tyr	290	295	300
Asn	Asn	His	Glu	Ile	Arg	Ser	Gly	Lys	His	Ile	Gly	Val	Cys	Ile	Ser	305	310	315
Val	Ala	Asn	Asn	Arg	Leu	Phe	Val	Gly	Ser	Ile	Pro	Lys	Ser	Lys	Thr	325	330	335
Lys	Glu	Gln	Ile	Leu	Glu	Glu	Phe	Ser	Lys	Val	Thr	Glu	Gly	Leu	Thr	340	345	350
Asp	Val	Ile	Leu	Tyr	His	Gln	Pro	Asp	Asp	Lys	Lys	Lys	Asn	Arg	Gly	355	360	365
Phe	Cys	Phe	Leu	Glu	Tyr	Glu	Asp	His	Lys	Thr	Ala	Ala	Gln	Ala	Arg	370	375	380
Arg	Arg	Leu	Met	Ser	Gly	Lys	Val	Lys	Val	Trp	Gly	Asn	Val	Gly	Thr	385	390	395
Val	Glu	Trp	Ala	Asp	Pro	Ile	Glu	Asp	Pro	Asp	Pro	Glu	Val	Met	Ala	405	410	415
Lys	Val	Lys	Val	Leu	Phe	Val	Arg	Asn	Leu	Ala	Asn	Thr	Val	Thr	Glu	420	425	430
Glu	Ile	Leu	Glu	Lys	Ala	Phe	Ser	Gln	Phe	Gly	Lys	Leu	Glu	Arg	Val	435	440	445
Lys	Lys	Leu	Lys	Asp	Tyr	Ala	Phe	Ile	His	Phe	Asp	Glu	Arg	Asp	Gly	450	455	460
Ala	Val	Lys	Ala	Met	Glu	Glu	Met	Asn	Gly	Lys	Asp	Leu	Glu	Gly	Glu	465	470	475
Asn	Ile	Glu	Ile	Val	Phe	Ala	Lys	Pro	Pro	Asp	Gln	Lys	Arg	Lys	Glu	485	490	495
Arg	Lys	Ala	Gln	Arg	Gln	Ala	Ala	Lys	Asn	Gln	Met	Tyr	Asp	Asp	Tyr	500	505	510
Tyr	Tyr	Tyr	Gly	Pro	Pro	His	Met	Pro	Pro	Pro	Thr	Arg	Gly	Arg	Gly	515	520	525

4738

Arg	Gly	Gly	Arg	Gly	Gly	Tyr	Gly	Tyr	Pro	Pro	Asp	Tyr	Tyr	Gly	Tyr			
	530					535					540							
Glu	Asp	Tyr	Tyr	Asp	Tyr	Tyr	Gly	Tyr	Asp	Tyr	His	Asn	Tyr	Arg	Gly			
545					550				555					560				
Gly	Tyr	Glu	Asp	Pro	Tyr	Tyr	Gly	Tyr	Glu	Asp	Phe	Gln	Val	Gly	Ala			
				565					570					575				
Arg	Gly	Arg	Gly	Gly	Arg	Gly	Ala	Arg	Gly	Ala	Ala	Pro	Ser	Arg	Gly			
				580				585					590					
Arg	Gly	Ala	Ala	Pro	Pro	Arg	Gly	Arg	Ala	Gly	Tyr	Ser	Gln	Arg	Gly			
		595					600					605						
Gly	Pro	Gly	Ser	Ala	Arg	Gly	Val	Arg	Gly	Ala	Arg	Gly	Gly	Ala	Gln			
	610					615					620							
Gln	Gln	Arg	Gly	Arg	Gly	Val	Arg	Gly	Ala	Arg	Gly	Gly	Arg	Gly	Gly			
625					630					635				640				
Asn	Val	Gly	Gly	Lys	Arg	Lys	Ala	Asp	Gly	Tyr	Asn	Gln	Pro	Asp	Ser			
				645					650					655				
Lys	Arg	Arg	Gln	Thr	Asn	Asn	Gln	Asn	Trp	Gly	Ser	Gln	Pro	Ile	Ala			
			660					665					670					
Gln	Gln	Pro	Leu	Gln	Gly	Gly	Asp	His	Ser	Gly	Asn	Tyr	Gly	Tyr	Lys			
		675					680					685						
Ser	Glu	Asn	Gln	Glu	Phe	Tyr	Gln	Asp	Thr	Phe	Gly	Gln	Gln	Trp	Lys			
	690					695					700							

<210> 5310

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4739

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5310

Asp	Tyr	Ala	Leu	Ser	Asn	Thr	Thr	Xaa	Tyr	Arg	Glu	Lys	Leu	Val	Arg
1				5					10					15	

Leu	Gln	Val	Pro	Val	Arg	Xaa	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Trp
			20					25					30		

Glu	Thr	Glu	Gln	Asp	Ser	Val	Ser	Lys	Lys	Asn	Lys	Asn	Lys	Asn	Lys
		35					40					45			

Lys	Thr	Glu	Gly	Gln	Ala	Gln	Val	Lys	Tyr	Pro	Ile	Phe	Ile	Leu	Ser
		50				55					60				

Arg	Gly	Ile	Lys	Lys
65				

<210> 5311

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5311

Cys	Ser	Asn	Cys	Pro	Lys	Leu	Trp	Pro	Lys	Lys	Ala	Pro	Ser	Asn	Trp
1				5					10					15	

Leu	Leu	Cys	Pro	Phe	Asp	Met	Ala	His	His	Ser	Leu	Asn	Thr	Phe	Tyr
			20					25					30		

Ile	Trp	His	Asn	Asn	Val	Leu	His	Thr	His	Leu	Val	Phe	Phe	Leu	Pro
		35					40					45			

His	Leu	Leu	Asn	Gln	Pro	Phe	Ser	Arg	Gly	Ser	Phe	Leu	Ile	Trp	Leu
	50					55					60				

Leu	Leu	Cys	Trp	Asn	Ser	Trp	Tyr	His	Leu	Arg	Thr	Leu	Arg	Arg	Gln
65					70					75					80

Ala	Asn	Gln	Ala	Asn	Lys	Leu	Ser	Met	Met	Leu	Leu	Arg	Val	Lys	Gln
				85					90					95	

Ser	Pro	Gly	Thr	Lys	Leu	Cys	His	Gly	Asp	Ser	Glu	Leu	Thr	Ser	Gly
			100					105					110		

Leu	Leu	Ala	Thr
			115

4740

<210> 5312

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5312

Val Thr Ile Ile Ile Ser Ala Ser Pro Thr Gln Val Thr Leu Leu Gly

1

5

10

15

Ser Pro Val Cys Pro His Leu Glu Val Thr Ala Xaa Pro Trp Arg Trp

20

25

30

Asp Ser Ile Leu Ser Pro Gly Cys Leu Pro Pro Val Arg Arg Pro Val

35

40

45

Ser Trp Cys Val Thr Ser Gly Arg Cys Gln Ala Cys Phe Pro Pro Ser

50

55

60

Phe Pro Pro Gln Arg Ala Arg Thr Asn His Gln Cys His His Thr Ser

65

70

75

80

Xaa Trp Pro Glu Asn Phe Met Asp Xaa Phe Thr Cys Ala Ile Val Asn

85

90

95

Leu Arg Arg Pro

100

<210> 5313

<211> 63

<212> PRT

<213> Homo sapiens

4741

<400> 5313

Val Pro Gly Glu Ala Glu Leu Glu Arg Ala Val Glu Ala Phe Pro Leu
 1 5 10 15

Leu Val Glu Ser Tyr Ala Pro His Ser Gly Ser Glu Leu Gln Leu Leu
 20 25 30

Ser Arg Thr Thr Thr Glu Ser Gly Ile Arg Val Lys Asn Thr Ser Pro
 35 40 45

Thr Pro Pro Leu Leu His Pro Arg Arg Phe His Val Phe Asn Leu
 50 55 60

<210> 5314

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5314

Asp Ser Gly Ser Cys Gly Pro Asp Pro Lys Cys Gly Asp Leu Arg Arg
 1 5 10 15

Ile Lys Gly Leu Cys Lys Phe Ala Asn Met Phe Thr Leu Ser Gln Thr
 20 25 30

Ser Arg Ala Trp Phe Ile Asp Arg Ala Arg Gln Ala Arg Glu Glu Arg
 35 40 45

Leu Val Gln Lys Glu Arg Glu Arg Ala Ala Val Val Ile Gln Ala His
 50 55 60

Val Arg Ser Phe Leu Cys Arg Ser Arg Leu Gln Arg Asp Ile Arg Arg
 65 70 75 80

Glu Ile Asp Asp Phe Phe Lys Ala Asp Asp Pro Glu Ser Thr Lys Arg
 85 90 95

Ser Ala Leu Cys Ile Phe Lys Ile Ala Arg Lys Leu Leu Phe Leu Phe
 100 105 110

Arg Ile Lys Glu Asp Asn Glu Arg Phe Glu Lys Leu Cys Arg Ser Ile
 115 120 125

Leu Ser Ser Met Asp Ala Glu Asn Glu Pro Lys Val Trp Tyr Val Ser
 130 135 140

Leu Ala Cys Ser Lys Asp Leu Thr Leu Leu Trp Ile Gln Gln Ile Lys
 145 150 155 160

Asn	Ile	Leu	Trp	Tyr	Cys	Cys	Asp	Phe	Leu	Lys	Gln	Leu	Lys	Pro	Glu
				165			170				175				
Ile	Leu	Gln	Asp	Ser	Arg	Leu	Ile	Thr	Leu	Tyr	Leu	Thr	Met	Leu	Val
				180			185				190				
Thr	Phe	Thr	Asp	Thr	Ser	Thr	Trp	Lys	Ile	Leu	Arg	Gly	Lys	Gly	Glu
				195			200				205				
Ser	Leu	Arg	Pro	Ala	Met	Asn	His	Ile	Cys	Ala	Asn	Ile	Met	Gly	His
210				215				220							
Leu	Asn	Gln	His	Gly	Phe	Tyr	Ser	Val	Leu	Gln	Cys	Cys	Asp	Gly	Leu
225				230				235				240			
Phe	Pro	Asp	Leu	Val	Ser	Tyr	Ala	Pro	His	Asn	Asn	Pro	Val	Arg	Trp
				245			250				255				
Ser	Val	Gly	Arg	Ser	Trp	Tyr	Asp	Trp	Gln	Leu	Ser	Arg			
260				265											

Pro Trp Gly Arg Trp Ser Lys Pro Ser Pro Gln Ala Gly Gly Leu Glu
50 55 60

4743

Ser Thr Arg Lys Gly Ser Thr Trp Phe Tyr Glu Gly Ile Leu Gly Gly
 65 70 75 80

Ala Thr Pro His Leu Pro Pro Thr Tyr Thr Phe Cys Cys Xaa Lys Cys
 85 90 95

Leu Ile Pro His Asp Val Ser Leu Ser Phe Gln Gln Lys Lys Val Lys
 100 105 110

Leu Trp Val Val Glu Pro
 115

<210> 5316

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5316

Ala Glu Arg Ser Leu Lys Ile Leu Pro Leu Leu Lys Lys Leu Leu Lys
 1 5 10 15

Ser Asn Asp His Glu Cys Met Leu Gly His Leu Cys Met Tyr Ile Gln
 20 25 30

Ile Asp Arg Met Asp Phe Xaa Lys Asn Gly Ile Thr Ile Val Leu Gln
 35 40 45

Trp Xaa Lys Lys Tyr Gly Ile Leu Pro His Ser Leu Asn Leu Gly Gly
 50 55 60

Ile Gln Lys Ala Leu Leu Lys Pro Ser Asn Lys Leu Asp Gln Leu Ser
 65 70 75 80

Leu Asp Leu

<210> 5317

4744

<211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5317
 Leu Leu Arg Arg Gly Phe Ile Xaa Gly Phe Tyr Asn Ala Asn Val Val
 1 5 10 15
 Xaa Leu Arg Xaa Lys Asn Trp Gln Leu Glu Ser Leu Ser Leu Ile Ser
 20 25 30
 Lys Gly Asn Pro Asp Phe Phe Val Asn Tyr Val Arg Gln Val Xaa Tyr
 35 40 45
 Gly Phe Leu Tyr Glu Leu Gln Phe Thr Val His Gln Ile Leu Val Ser
 50 55 60
 Glu Glu Leu Ile Tyr Val Lys Cys Leu Lys Ile Tyr Thr
 65 70 75

<210> 5318
 <211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

4745

<400> 5318

Ser Pro Gly Gly Arg Ser Ser Leu Leu Leu Ser Pro Val Val Ser Arg
 1 5 10 15

Thr Ser Cys Pro Asp Leu Pro Trp Ser Cys Leu Ser Asp Ser Leu His
 20 25 30

Gln Gly His Pro Thr Ala Ser Lys Xaa Ala Phe Pro Trp Thr Asn Ala
 35 40 45

Thr Ala Thr Phe Met Cys Glu Ala Lys Ile Thr Leu Gln Gln Ser Gln
 50 55 60

Tyr
 65

<210> 5319

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5319

Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala
 1 5 10 15

His Leu Pro Glu Ala Arg Cys Gly Gly Gly Pro Arg Gly Arg Ser Gln
 20 25 30

Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser
 35 40 45

Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Gln Leu
 50 55 60

Gln Arg Phe Gly His Gly Cys Glu Val Pro Arg Cys Trp Leu Gln Ala
 65 70 75 80

Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu

4746

	85		90		95										
Gly	Glu	Gly	Gln	Glu	Gly	Glu	Gly	Gln	Glu	Glu	Gly	Gly	Ser	Pro	Leu
	100					105							110		
Lys	Gly	Pro	Gly	Gln	Gly	Ser	Leu	Asn	Leu	Pro	Leu	Cys	Leu	Gln	Lys
	115						120					125			
Lys	Lys	Xaa	Xaa												
	130														

<210> 5320
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 5320															
Leu	Ser	Ser	Ile	Cys	Leu	Asn	Ile	Ser	Ser	Leu	Gly	Asp	Ser	Ser	Pro
1				5					10					15	
Leu	Cys	Leu	Val	Ala	Asn	Cys	Asn	Ser	Pro	Cys	Gly	Pro	Thr	Glu	Tyr
			20					25					30		
His	Ser	Thr	Ala	Phe	Leu	Asp	Ile	Tyr	Asp	Val	Leu	Thr	Ile	Gln	Val
			35				40					45			

<210> 5321
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 5321															
Lys	Glu	Trp	His	Cys	Phe	Tyr	Ile	Phe	Ala	His	Leu	Phe	His	Ala	Arg
1				5					10				15		
Leu	Asn	Arg	Asn	Ser	Tyr	Leu	Leu	Val	Arg	Val	Val	Cys	Cys	Asn	Ile
			20					25					30		
Thr	Tyr	His	Val	Thr	Ser	Gly	Lys	Pro	His	Cys	Met	His	Val	Arg	Glu
			35				40					45			
Gly	Glu	Ser	His	Val	Arg	Val	Val	Ile	Lys	Ile	Val	Leu	Thr	Leu	
	50					55					60				

4747

<210> 5322
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 5322
 Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe
 1 5 10 15
 Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
 20 25 30
 Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Phe Pro
 35 40 45
 Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
 50 55 60
 Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
 65 70 75 80
 Thr Ser Pro Ser Leu Lys Gly
 85

<210> 5323
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 5323
 Ile Gly Leu Lys Ala Asn Ser Gln Gly Ala Thr Asp Pro Phe His Asn
 1 5 10 15
 Arg Met Leu Pro Val Asn Ser Leu Ser Ile Leu Leu Cys Pro Val Ser
 20 25 30
 Lys Lys Lys Lys Lys Ser Arg Arg Val Ser Gln Ser Gly His Leu Ile
 35 40 45
 Arg Asp Leu Ala Gln Glu Glu Glu Met Gly Arg Glu Ser Asp Gly Glu
 50 55 60
 Gln His Ser Pro Trp Glu Pro Glu Val Gly Gly His Arg Ala Pro
 65 70 75

4748

<210> 5324

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5324

Glu Pro Ala Ala Thr Ala Ala Glu Thr Xaa Ser Cys Val Leu Cys Gly
1 5 10 15

Leu Pro Ala Ala Gly Lys Ser Thr Phe Ala Arg Ala Leu Ala His Arg
20 25 30

Leu Gln Gln Glu Gln Gly Trp Ala Ile Gly Val Val Ala Tyr Asp Asp
35 40 45

Val Met Pro Asp Ala Phe Leu Ala Gly Ala Arg Ala Arg Pro Ala His
50 55 60

Ser Gln Trp Lys Leu Leu Arg Gln Glu Leu Leu Lys Tyr Leu Glu Tyr
65 70 75 80

Phe Leu Met Ala Val Ile Asn Gly Cys Gln Met Ser Val Pro Pro Asn
85 90 95

Arg Thr

<210> 5325

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4749

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5325

Gly	Lys	Gly	Xaa	Xaa	Leu	Pro	Ile	Xaa	Xaa	Ser	Xaa	Thr	Phe	Met	Pro
1				5					10					15	

Asn	Gly	Cys	Cys	Lys	Thr	Cys	Thr	Pro	Arg	Asn	Glu	Thr	Arg	Val	Pro
			20					25					30		

Cys	Ser	Thr	Val	Pro	Val	Thr	Thr	Glu	Val	Ser	Tyr	Ala	Gly	Cys	Thr
		35					40					45			

Lys	Thr	Val	Leu	Met	Asn	His	Cys	Ser	Gly	Ser	Cys	Gly	Thr	Phe	Val
50						55					60				

Met	Tyr	Ser	Ala	Lys	Ala	Gln	Ala	Leu	Asp	His	Ser	Cys	Ser	Cys	Cys
65					70					75					80

Lys	Glu	Glu	Lys	Thr	Ser	Gln	Arg	Glu	Val	Val	Leu	Ser	Cys	Pro	Asn
				85					90					95	

Gly	Gly	Ser	Leu	Thr	His	Thr	Tyr	Thr	His	Ile	Glu	Ser	Cys	Gln	Cys
			100					105					110		

Gln	Asp	Thr	Val	Cys	Gly	Leu	Pro	Thr	Gly	Thr	Ser	Arg	Arg	Ala	Arg
		115					120					125			

Arg	Ser	Pro	Arg	His	Leu	Gly	Ser	Val	Ser	Gly	Val	Gly	Thr	Ala	Pro
	130					135					140				

Ser	Leu	Pro	Ser	Thr	Ala	Leu	Pro	Pro	Pro	Asp	Pro	Leu	Ser	Leu	Leu
145					150					155					160

Lys	Leu	Gly	Phe	Leu	Xaa	Ser	Asp	Ile	Tyr	Cys	Leu	Ser	Phe	Cys	Ser
				165					170					175	

4750

Val Leu

<210> 5326

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5326

Arg	Gly	Gly	Gln	Thr	Xaa	Xaa	Pro	Ala	Gly	Ala	Arg	Xaa	Gly	Thr	Val
1				5					10					15	

Leu	Asn	Pro	Gly	Glu	Thr	Ala	Lys	Trp	Lys	Thr	Tyr	Arg	Val	Cys	Ala
			20					25					30		

Leu	Pro	Asp	Phe	Thr	Val	Leu	Leu	Gly	His	Phe	Thr	Tyr	Val	Pro	Ala
		35					40					45			

Val	Ile	Asn
	50	

<210> 5327

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5327

Pro	Gln	Leu	Tyr	Lys	Leu	Phe	Phe	Lys	Thr	Lys	Tyr	Phe	Gln	Val	Tyr
1				5					10					15	

Leu	Leu	Thr	Lys	Asn	Ile	Ile	Met	Val	Lys	Thr	Phe	Leu	Phe	Asn	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4751

20 25 30
 Leu Val Ile Phe Leu Thr Ser Ile Phe Phe Asn Leu Ser Leu His Lys
 35 40 45
 Lys Asn
 50

 <210> 5328
 <211> 108
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5328
 Ser Val Tyr Leu Lys Arg Asn Leu Ile Phe Gln Gly Ser Asn Val Tyr
 1 5 10 15
 Val Phe Gln Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser Leu
 20 25 30
 Leu Glu Met Tyr Ala Asp Phe Phe Xaa His Pro Asp Leu Phe Val Arg
 35 40 45
 Tyr Leu Thr Glu His Gly Ser Phe Gln Arg Leu Gln Met Leu Leu Ser
 50 55 60
 Ser Phe Leu Pro Phe Ile Leu Gln Asp Arg Trp Ile Pro Cys His Leu
 65 70 75 80
 Ser Asn Ile Ser Gly Tyr Ser Val Val Leu Asn Asn Xaa Phe Thr Leu
 85 90 95
 Val Ala Cys Leu Leu Lys Val Ile Trp Gly Arg Cys
 100 105

<210> 5329
 <211> 67

4752

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5329

Leu	Cys	Met	Ser	Leu	Gly	Glu	Cys	Val	Ser	Ser	Thr	Val	Ala	Pro	Arg
1				5					10					15	

Gly	Ser	Thr	His	Ser	Leu	Lys	Leu	Leu	Leu	Pro	His	Cys	Thr	Tyr	Ser
			20				25						30		

Leu	Arg	Leu	Asn	Trp	Ser	Gln	Thr	Asn	Trp	Asp	Pro	Ala	Gln	Ser	Ser
		35					40					45			

Ser	Ser	Gln	Asn	Glu	Val	Leu	Arg	Pro	Gln	Cys	Val	Arg	Thr	Cys	Leu
	50					55					60				

Ala	Val	Xaa
65		

<210> 5330

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5330

Ala	Gln	Phe	Leu	Gly	His	Ala	Pro	Val	Cys	Ser	Asp	Met	Leu	Leu	Tyr
1				5					10					15	

Val	Thr	Glu	Met	Ala	Met	Ser	Thr	Gly	Gly	Lys	Ile	Thr	Pro	Thr	Trp
			20					25					30		

Glu	Glu	Glu	Lys	Pro	Val	Arg	Gly	Ser	Thr	Ala	Gly	Ala	Ala	Leu	Ser
			35				40					45			

Thr	Glu	Xaa	Ser	Cys	Leu	Pro	Asp	Ser	Met	Ala	Phe	Val	Ser	Ile	Arg
	50					55					60				

Val
65

4753

<210> 5331

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5331

Ile	Pro	Ala	Leu	Leu	Leu	Thr	Ser	Leu	Gly	Pro	Trp	Arg	Met	Leu	Ser
1				5					10					15	

Ile	Ser	Leu	Ser	Leu	Ser	Val	Leu	Leu	Cys	Lys	Met	Trp	Met	Ile	Pro
			20					25					30		

Asp	Ser	Gln	Ala	Phe	Cys	Gln	Asp	Tyr	Met	Gly	Phe	Leu	His	Ser	Ala
		35					40					45			

Met	Ser	Ser	Asp	Asn	Ile	Asn	Thr	Lys	Ser	Asn	Leu	Leu	Asn	Val
	50					55					60			

<210> 5332

<211> 404

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5332

Met	Pro	Asp	Gly	Ala	Thr	Leu	Ala	Ile	Gly	Ser	Ser	Arg	Gly	Lys	Ile
1					5				10					15	

Tyr	Gln	Tyr	Asp	Leu	Arg	Met	Leu	Lys	Ser	Pro	Val	Lys	Thr	Ile	Ser
			20					25					30		

Ala	His	Lys	Thr	Ser	Val	Gln	Cys	Ile	Xaa	Phe	Gln	Tyr	Ser	Thr	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4754

35	40	45
Leu Thr Lys Ser Ser Leu Asn Lys Gly Cys Ser Asn Lys Pro Thr Thr		
50	55	60
Val Asn Lys Arg Met Phe Asn Val Asn Ala Ala Ser Gly Gly Val Gln		
65	70	75 80
Asn Ser Gly Ile Val Arg Glu Ala Pro Ala Thr Ser Ile Ala Thr Val		
	85 90	95
Leu Pro Gln Pro Met Thr Ser Ala Met Gly Lys Gly Thr Val Ala Val		
	100 105	110
Gln Glu Lys Ala Gly Leu Pro Arg Ser Ile Asn Thr Asp Thr Leu Ser		
	115 120	125
Lys Glu Thr Asp Ser Gly Lys Asn Gln Asp Phe Ser Ser Phe Asp Asp		
	130 135	140
Thr Gly Lys Ser Ser Leu Xaa Asp Met Phe Ser Pro Ile Arg Asp Asp		
	145 150	155 160
Ala Val Val Asn Lys Gly Ser Asp Glu Ser Ile Gly Lys Gly Asp Gly		
	165 170	175
Phe Asp Phe Leu Pro Gln Leu Asn Ser Val Phe Pro Pro Arg Lys Asn		
	180 185	190
Pro Val Thr Ser Ser Thr Ser Val Leu His Ser Ser Pro Leu Asn Val		
	195 200	205
Phe Met Gly Ser Pro Gly Lys Glu Glu Asn Glu Asn Arg Asp Xaa Thr		
	210 215	220
Ala Glu Ser Lys Lys Ile Tyr Met Gly Lys Gln Glu Ser Lys Asp Ser		
	225 230	235 240
Phe Lys Gln Leu Ala Lys Leu Val Thr Ser Gly Ala Glu Ser Gly Asn		
	245 250	255
Leu Asn Thr Ser Pro Ser Ser Asn Gln Thr Arg Asn Ser Glu Lys Phe		
	260 265	270
Glu Lys Pro Glu Asn Glu Ile Glu Ala Gln Leu Ile Cys Glu Pro Pro		
	275 280	285
Ile Asn Gly Ser Ser Thr Pro Asn Pro Lys Ile Ala Ser Ser Val Thr		
	290 295	300
Ala Gly Val Ala Ser Ser Leu Ser Glu Lys Ile Ala Asp Ser Ile Gly		

4755

305 310 315 320
 Asn Asn Arg Gln Asn Ala Pro Leu Thr Ser Ile Gln Ile Arg Phe Ile
 325 330 335
 Gln Asn Met Ile Gln Glu Thr Leu Asp Asp Phe Arg Glu Ala Cys His
 340 345 350
 Arg Asp Ile Val Asn Leu Gln Val Glu Met Ile Lys Gln Phe His Met
 355 360 365
 Gln Leu Asn Glu Met His Ser Leu Leu Glu Arg Tyr Ser Val Asn Glu
 370 375 380
 Gly Leu Val Ala Glu Ile Glu Arg Leu Arg Glu Glu Asn Lys Arg Leu
 385 390 395 400
 Arg Ala His Phe

<210> 5333

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5333

Arg Lys Pro Gln Thr Pro Thr Ala Leu Cys Thr Xaa Trp Cys Pro His
 1 5 10 15

Phe Gln Lys Lys Lys Lys Lys Ile Ser Lys Ile Glu Phe Lys Lys Ser
 20 25 30

His Leu Ser Cys Pro Ala Asn Ile Cys Ser Ser Leu Val Gly Ala Val
 35 40 45

Glu Ala Ser Thr His Arg Gln Ala Val Ala Gly Thr Val Lys Gly Lys
 50 55 60

Thr Pro
 65

<210> 5334

4756

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5334

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Pro Arg Val Arg Arg Glu Val Gln Ser Leu Lys Glu Gln His Gln Lys
 1             5             10             15

Glu Ile Ser Glu Leu Asn Glu Thr Phe Leu Ser Asp Ser Glu Lys Glu
      20             25             30

Lys Leu Thr Leu Met Phe Glu Ile Gln Gly Leu Lys Glu Gln Cys Glu
      35             40             45

Asn Leu Gln Gln Glu Lys Gln Glu Ala Ile Leu Asn Tyr Glu Ser Leu
      50             55             60

Arg Glu Ile Met Glu Ile Leu Gln Thr Glu Leu Gly Glu Ser Ala Gly
      65             70             75             80

Lys Ile Ser Gln Glu Phe Glu Ser Met Lys Gln Gln Gln Ala Ser Asp
      85             90             95

Val His Glu Leu Gln Gln Lys Leu Arg Thr Ala Phe Thr Glu Lys Asp
      100            105            110

Ala Leu Leu Glu Thr Val Asn Arg Leu Gln Gly Glu Asn Glu Lys Leu
      115            120            125

Leu Ser Gln Gln Glu Leu Val Pro Glu Leu Glu Asn Thr Ile Lys Asn
      130            135            140

Leu Gln Glu Lys Asn Gly Val Tyr Leu Leu Ser Leu Ser Gln Arg Asp
      145            150            155            160

Thr Met Leu Lys Glu Leu Glu Gly Lys Ile Asn Ser Leu Thr Glu Glu
      165            170            175

Lys Asp Asp Phe Ile Asn Lys Leu Lys Asn Ser His Glu Glu Met Asp
      180            185            190

Asn Phe His Lys Lys Cys Glu Arg Glu Glu Arg Leu Ile Leu Glu Leu
      195            200            205

Gly Lys Lys Val Glu Gln Thr Ile Gln Tyr Asn Ser Glu Leu Glu Gln
      210            215            220

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4757

Lys Val Asn Glu Leu Thr Gly Gly Leu Glu Glu Thr Leu Lys Glu Lys
 225 230 235 240

Asp Gln Asn Asp Gln Lys Leu Glu Lys Leu Xaa Gly Ser Asn Glu Ser
 245 250 255

Ser Leu

<210> 5335

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5335

Tyr Ala Ile Ile Met Gln Leu Asn Val Asp Glu Ser Gly Arg Gly Trp
 1 5 10 15

Ala Gln Met Val Pro His Asp Pro Gly Ile Asp Pro Glu Phe Pro Glu
 20 25 30

Glu Trp Val Asp Asn Thr Tyr Ser Asn Lys Asn Pro Phe Leu Leu Phe
 35 40 45

Ser Ile Lys Leu Leu Ser Lys Ile Ile Asp Arg Leu
 50 55 60

<210> 5336

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5336

Leu Cys His Glu Lys Leu Ser Leu Leu Glu Asp Phe Lys Asp Phe Arg
 1 5 10 15

Asp Ser Cys Ser Ser Ser Glu Arg Thr Asp Gly Arg Tyr Ser Lys Tyr
 20 25 30

Arg Val Arg Arg Asn Ser Leu Gln His His Gln Asp Asp Thr Lys Tyr
 35 40 45

Arg Thr Lys Ser Phe Lys Gly Asp Arg Thr Phe Leu Glu Gly Tyr His
 50 55 60

Thr Arg Gly Leu Asp His Ser Ser Ser Trp Gln Asp His Ser Arg Phe

65						70						75						80
Leu	Ser	Ser	Pro	Arg	Phe	Ser	Tyr	Val	Asn	Ser	Phe	Thr	Lys	Arg	Thr			
				85					90					95				
Val	Ala	Pro	Asp	Ser	Ala	Ser	Asn	Lys	Glu	Asp	Ala	Thr	Met	Asn	Gly			
				100					105					110				
Thr	Ser	Ser	Gln	Pro	Lys	Lys	Glu	Glu	Tyr	Gly	Ser							
				115					120									

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<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5337
Met Ser Arg Thr Arg Pro Ala Arg Pro Met Gly Trp Gly Gln Gln Arg
1 5 10 15

Pro Glu Gly Ser Thr Arg Arg Thr Ile Glu Gly Gln Ser Pro Glu Pro
35 40 45

Gly Ala Leu Glu Leu Asn Gln Arg Asp Ala Ala Ala Glu Thr Glu Leu
65 70 75 80

Arg Val His Pro Pro Cys Gln Arg His Cys Pro Glu Pro Arg Val His
85 90 95

4759

Pro Lys Lys Thr Lys Pro Pro Ala Lys Leu Pro Lys Val Xaa Thr Gln
 100 105 110

Lys Pro Pro Ser Leu Ala Leu Phe Pro Xaa Ser Ser Pro Cys Gly Asn
 115 120 125

Leu Leu Leu Ala Arg Lys Phe Gly
 130 135

<210> 5338

<211> 120

<212> PRT

<213> Homo sapiens

<400> 5338

Val Leu Asp Arg Glu Arg Pro Ser Phe Phe Phe Phe Ser Val Gln
 1 5 10 15

Ala Gln Phe Cys His Gln Phe Asp Tyr Glu Lys Ser Phe Gly Leu Pro
 20 25 30

Gly Ser Phe Gly Ala Trp Lys Leu Gln Met Arg Asp Gly Gly Leu His
 35 40 45

Cys Phe Ala Ala Gly Glu Arg Glu Leu Ile Arg Ser Leu Pro Thr Glu
 50 55 60

Val Gly Val Met Pro Asp Ala Glu Arg Ser Gly Ser Pro Arg Ala Gln
 65 70 75 80

Ala Pro Cys Gly Arg Cys Pro Gln Arg Ala Ser Pro Pro Pro Arg Pro
 85 90 95

Gly Ser Tyr Leu Leu His Asp Leu Leu Pro Arg Arg Ala Ala Tyr Leu
 100 105 110

Leu Asp Gly Leu Leu Asp Val Leu
 115 120

<210> 5339

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4760

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5339

Ala	Gly	Met	Met	Tyr	Leu	Xaa	Asn	His	Thr	Pro	Val	Leu	Ile	Ser	His
1				5					10					15	

Gln	Ile	Ser	Met	Phe	Thr	Phe	Ser	Val	Trp	Met	Ser	Gly	Arg	Thr	Leu
			20					25					30		

Lys	Asn	Trp	Gln	Ser	Cys	Pro	Thr	His	Ala	Glu	His	Leu
		35					40					45

<210> 5340

<211> 288

<212> PRT

<213> Homo sapiens

<400> 5340

Arg	Ser	Ala	Pro	Pro	Gly	Arg	Cys	Arg	Pro	Trp	Pro	Val	Pro	Ser	Pro
1				5					10					15	

Arg	Phe	Ser	Ala	Pro	Arg	Ala	Val	Pro	Ser	Gln	Ser	Pro	Ala	Pro	Arg
			20					25					30		

Tyr	Arg	Ala	Asp	Arg	Pro	Ser	Arg	Arg	Leu	Pro	Val	Pro	Gly	Thr	Pro
		35					40					45			

Ala	Arg	Pro	Leu	Ala	Arg	Ser	Pro	Pro	Ala	Ala	His	Val	Pro	Gly	Ala
	50					55					60				

Gly	Pro	Arg	Ala	Gly	Gly	Arg	Ala	Ala	Arg	Arg	Ser	Gln	Ala	Gly	Leu
65					70					75					80

Cys	Ser	Val	Pro	Met	Ala	Ala	Ala	Gly	Trp	Arg	Asp	Gly	Ser	Gly	Gln
				85					90					95	

Glu	Lys	Tyr	Arg	Leu	Val	Val	Val	Gly	Gly	Gly	Gly	Val	Gly	Lys	Ser
			100					105					110		

Ala	Leu	Thr	Ile	Gln	Phe	Ile	Gln	Ser	Tyr	Phe	Val	Thr	Asp	Tyr	Asp
		115					120					125			

Pro	Thr	Ile	Glu	Asp	Ser	Tyr	Thr	Lys	Gln	Cys	Val	Ile	Asp	Asp	Arg
	130					135					140				

Ala	Ala	Arg	Leu	Asp	Ile	Leu	Asp	Thr	Ala	Gly	Gln	Glu	Glu	Phe	Gly
145					150					155					160

4761

Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Leu Val
165 170 175

Phe Ser Val Thr Asp Arg Gly Ser Phe Glu Glu Ile Tyr Lys Phe Gln
180 185 190

Arg Gln Ile Leu Arg Val Lys Asp Arg Asp Glu Phe Pro Met Ile Leu
195 200 205

Ile Gly Asn Lys Ala Asp Leu Asp His Gln Arg Gln Val Thr Gln Glu
210 215 220

Glu Gly Gln Gln Leu Ala Arg Gln Leu Lys Val Thr Tyr Met Glu Ala
225 230 235 240

Ser Ala Lys Ile Arg Met Asn Val Asp Gln Ala Phe His Glu Leu Val
245 250 255

Arg Val Ile Arg Lys Phe Gln Glu Gln Glu Cys Pro Pro Ser Pro Glu
260 265 270

Pro Thr Arg Lys Glu Lys Asp Lys Lys Gly Cys His Cys Val Ile Phe
275 280 285

<210> 5341

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5341

Ala Ala Ala Glu Arg Asp Val Pro Pro Pro Pro Pro Pro Pro Pro
1 5 10 15

Pro Ser Glu Pro Leu Leu Ala Leu Arg Gly Gly Ala Thr Asp Ala Cys
20 25 30

Leu Ala Arg Arg Thr Leu Arg Asp Pro Gly Ala Ala Gln Pro Ala Glu
35 40 45

Pro Arg Arg Ser Pro Ala Pro Gly Ala Pro Gly Ser Gln Cys Arg Pro
50 55 60

4762

Ala Gly Gly Pro Val Arg Glu Pro Arg Val Arg Glu Leu Arg Leu His
 65 70 75 80
 Pro Asp Ala Ala Val Ala Arg Xaa Gly Thr Gly His Tyr Leu Cys Asn
 85 90 95
 Ala Cys Gly Leu Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile
 100 105 110
 Lys Pro Gln Lys Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys
 115 120 125
 Ala Asn Cys His Thr Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu
 130 135 140
 Gly Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly
 145 150 155 160
 Val Pro Arg Pro Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys
 165 170 175
 Arg Lys Pro Lys Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser
 180 185 190
 Asn Asn Ser Ile Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp
 195 200 205
 Asp Cys Ser Lys Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly
 210 215 220
 Ala Gly Ala Pro Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu
 225 230 235 240
 Asn Ser Glu Leu Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val
 245 250 255
 Ser Leu Ala Ser Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser
 260 265 270
 Trp Cys Ala Leu Ala Leu Ala
 275

<210> 5342

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5342

4763

Glu Glu Leu Glu Ala Arg Gly Leu Arg Trp Leu Pro Trp Val Phe Pro
 1 5 10 15

Ser Arg Leu Cys Tyr Cys Val Arg Pro Phe Ser His Cys Gly His Val
 20 25 30

Phe Leu Glu Ser Ile Phe Gln Val Leu Tyr Ile Gln His Ser Pro Pro
 35 40 45

Ser Phe Ser Leu Ile Pro Phe
 50 55

<210> 5343

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5343

Thr Glu Glu Ile Leu Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr
 1 5 10 15

Gly Thr Cys Arg Arg Thr Ser Phe Pro Ile Val Ser Arg Ile Arg Ala
 20 25 30

Trp Arg Asn His Gly His Ser Xaa Phe Leu Cys Glu Ile Gly Ile Arg
 35 40 45

Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
 50 55

<210> 5344

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5344

Ser Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
 1 5 10 15

Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu Ala
 20 25 30

4764

Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly Phe Ala
 35 40 45
 Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val Val Ser Ser
 50 55 60
 Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr Leu Gln Gly Glu
 65 70 75 80
 Gly Leu Ser Val Thr Gly Thr Cys Ala Met Trp Gly Arg Arg Arg Thr
 85 90 95
 Gly Ser Gly Trp Trp Pro Arg
 100

<210> 5345

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5345

Ser Leu Tyr Met Leu Thr Asn Ser Lys Gly Lys Glu Ile Asp His Lys
 1 5 10 15
 Leu His Val Asn Val Glu Gly Lys Leu Ile Asp His Lys Leu Lys Tyr
 20 25 30
 Asn Leu Ile Cys Tyr Ile Phe Leu Leu Ile Tyr Ile Pro Met Lys Xaa
 35 40 45
 Phe Leu Tyr
 50

<210> 5346

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

4765

<400> 5346

Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys
 1 5 10 15
 Phe Ser Val Xaa Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met
 20 25 30
 Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile
 35 40 45
 Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile
 50 55 60
 Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys
 65 70 75 80
 Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile
 85 90 95

<210> 5347

<211> 291

<212> PRT

<213> Homo sapiens

<400> 5347

Arg Pro Asp Ser Arg Val Asp Pro Arg Val Arg Glu Val Thr Asp Tyr
 1 5 10 15
 Ala Ile Ala Arg Arg Ile Val Asp Leu His Ser Arg Ile Glu Glu Ser
 20 25 30
 Ile Asp Arg Val Tyr Ser Leu Asp Asp Ile Arg Arg Tyr Leu Leu Phe
 35 40 45
 Ala Arg Gln Phe Lys Pro Lys Ile Ser Lys Glu Ser Glu Asp Phe Ile
 50 55 60
 Val Glu Gln Tyr Lys His Leu Arg Gln Arg Asp Gly Ser Gly Val Thr
 65 70 75 80
 Lys Ser Ser Trp Arg Ile Thr Val Arg Gln Leu Glu Ser Met Ile Arg
 85 90 95
 Leu Ser Glu Ala Met Ala Arg Met His Cys Cys Asp Glu Val Gln Pro
 100 105 110

4766

Lys His Val Lys Glu Ala Phe Arg Leu Leu Asn Lys Ser Ile Ile Arg
 115 120 125
 Val Glu Thr Pro Asp Val Asn Leu Asp Gln Glu Glu Glu Ile Gln Met
 130 135 140
 Glu Val Asp Glu Gly Ala Gly Gly Ile Asn Gly His Ala Asp Ser Pro
 145 150 155 160
 Ala Pro Val Asn Gly Ile Asn Gly Tyr Asn Glu Asp Ile Asn Gln Glu
 165 170 175
 Ser Ala Pro Lys Ala Ser Leu Arg Leu Gly Phe Ser Glu Tyr Cys Arg
 180 185 190
 Ile Ser Asn Leu Ile Val Leu His Leu Arg Lys Val Glu Glu Glu Glu
 195 200 205
 Asp Glu Ser Ala Leu Lys Arg Ser Glu Leu Val Asn Trp Tyr Leu Lys
 210 215 220
 Glu Ile Glu Ser Glu Ile Asp Ser Glu Glu Glu Leu Ile Asn Lys Lys
 225 230 235 240
 Arg Ile Ile Glu Lys Val Ile His Arg Leu Thr His Tyr Asp His Val
 245 250 255
 Leu Ile Glu Leu Thr Gln Ala Gly Leu Lys Gly Ser Thr Glu Gly Ser
 260 265 270
 Glu Ser Tyr Glu Glu Asp Pro Tyr Leu Val Val Asn Pro Asn Tyr Leu
 275 280 285
 Leu Glu Asp
 290

<210> 5348

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5348

Thr Cys Ser Arg Ser Arg Ala Ala Ala Leu Leu Thr Val Leu Gly Val
 1 5 10 15
 Cys Val Gln Ser Glu Gln Gly Leu Cys Phe Trp Ile Val Lys Glu Asp
 20 25 30

4767

Ala

<210> 5349

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5349

Thr Pro Ala Gly Xaa Arg Ser Gly Asn Ser Arg Val Glu Gly Pro Leu

1

5

10

15

Ser Cys Leu Tyr Ser Phe Ser Leu Leu Tyr Ser Phe Thr Arg Ser Pro

20

25

30

His Leu Thr Ser Glu Leu Leu Gly Pro Leu Asp Pro His Ile Ser Trp

35

40

45

Ala Ile Ser Leu Phe Cys

50

<210> 5350

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5350

4768

Xaa Arg Lys Thr Leu Asp Val Xaa Xaa Thr Ile Met Gly Thr Arg Ile
 1 5 10 15
 Glu Gly Phe Phe Pro Leu Lys Ala Phe Leu Pro Gly Gly Trp Ala Leu
 20 25 30
 Leu Gly His Ala Leu Gln Ser Ser Val Pro Gln Gln Glu Ser Gly Gly
 35 40 45
 His His Leu Pro Ala Ser Ser Thr Phe Ser Ala Ser Leu Phe Ser Met
 50 55 60
 Asn Pro Gly Arg Pro Ala Gly Thr Ser Lys Phe Pro Gly Leu Ser Ala
 65 70 75 80

<210> 5351

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5351

Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu Phe Ala Ser Phe Ile
 1 5 10 15
 Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val Leu Ile Ile Leu Phe
 20 25 30
 Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu Ile Asn Asn Arg Leu
 35 40 45
 Ile Thr Thr Gln Gln
 50

<210> 5352

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5352

4769

Arg Cys Pro Thr Arg Ser Pro Pro Pro Asp Thr Pro Gly Ser Arg Gly
 1 5 10 15
 Thr Thr Ala Met Cys Ser Leu Ala Ser Gly Ala Thr Gly Gly Arg Gly
 20 25 30
 Ala Val Glu Asn Glu Glu Asp Leu Pro Glu Leu Ser Asp Ser Gly Asp
 35 40 45
 Glu Ala Ala Trp Glu Asp Glu Asp Asp Ala Asp Leu Pro His Gly Lys
 50 55 60
 Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala Glu
 65 70 75 80
 Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile Asp Ser
 85 90 95
 Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile Lys Leu Ile
 100 105 110
 Xaa Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr Met Asn Ser Ile
 115 120 125
 Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr Leu Lys Pro Val Leu
 130 135 140
 Glu Asp Asp Leu Leu Leu Gln Phe Asp Val Glu Asp Leu Tyr Glu Pro
 145 150 155 160
 Val Ser Val Pro Phe Ser Tyr Pro Asn Gly Leu Ser Glu Asn Thr Ser
 165 170 175
 Val Val Glu Lys Leu Lys His Met Glu
 180 185

<210> 5353

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5353

Tyr Ile Lys Ala Leu Leu Ser Ser Asp Tyr Ala Tyr Phe Ala Ser Arg
 1 5 10 15
 Glu Thr Glu Ala Trp Val Gly Gln Arg Gly Ala His Val Phe Thr Ala
 20 25 30
 Leu Ser Ala Pro Asp Phe Gly Ala Ile Ser Leu His Pro Cys Ala Pro

4770

35 40 45
 Val Lys Asn Leu Ala Ser Thr Phe Cys Ser Pro Asp Pro Pro Ser Leu
 50 55 60
 Thr Cys Gly Ser Cys His Thr Lys Met Gly Leu Pro
 65 70 75

<210> 5354
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 5354
 Gly Thr Gln Leu Ile Thr Arg Arg Ile Asn Trp Pro Lys Phe Leu Ile
 1 5 10 15
 Phe Gln Phe Val Ala Pro Ala Pro Arg Asp His Gln Lys Leu Phe Trp
 20 25 30
 Val Ser Leu Ser Leu Arg Arg Asp Pro Leu His Arg Pro Ser Leu Ile
 35 40 45
 Leu Ile Ser Pro Cys Pro Glu Ser Val Asn Val Pro Arg Lys
 50 55 60

<210> 5355
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 5355
 Gly His Val Asp Asn Leu Arg Tyr His Ser Ile Val His Asn Val His
 1 5 10 15
 His Tyr Ser Val Asp Cys Lys Gly Leu Leu Ser Ser Cys Lys Asn Tyr
 20 25 30
 Pro Ser Lys Ser Ile Phe Lys Val Leu Val Leu Leu Ile Tyr Lys Leu
 35 40 45
 Cys Ala Arg Ser Pro Lys Val Asn Ser Asn Ile Tyr Leu Lys Tyr Ser
 50 55 60
 Leu Ser Tyr Leu Ile Asn Leu Trp Tyr Ile Phe Leu Tyr Tyr Ala Cys
 65 70 75 80

4771

<210> 5356

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5356

Leu Lys Met Lys Thr Pro Phe Phe Ile Phe Asn Leu Ala Glu Thr Ala
1 5 10 15

His Met Pro Ser Lys Val Lys Ala Gln Leu Tyr Ala Gln Ala Tyr Asp
20 25 30

Leu Tyr Lys Glu Ile Val Tyr Leu Gln Lys Glu His Pro Val Asn Trp
35 40 45

His Lys Asn Tyr Ala Ile Ala Cys Glu Arg Met Leu Arg Leu Gln Ala
50 55 60

Arg Asp Ala Asp Pro Glu Val Leu Leu Ser Glu Thr Ile Arg His Phe
65 70 75 80

Arg Leu Tyr Ser Gln Lys Ala Pro Asn Asp Pro Gln Gln Ala Asp Ile
85 90 95

Leu Gly Ala Leu Lys His Leu Arg Lys Glu Leu Gln Ser Leu Arg Asn
100 105 110

Arg Lys Asn Val
115

<210> 5357

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5357

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Pro Ala Gly His
1 5 10 15

4772

Ser Gln Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val
 20 25 30
 Lys Val Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro
 35 40 45
 His Asn Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val
 50 55 60
 Ala Asn Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu
 65 70 75 80
 His Arg Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys
 85 90 95
 Arg Lys Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Xaa Pro Lys
 100 105 110
 Asn Phe Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys
 115 120 125
 Ser Ile Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser
 130 135 140
 Gly Leu Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr
 145 150 155 160
 Ser Asp His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn
 165 170 175
 Val Asp Glu Glu Lys Gln Arg Met
 180

<210> 5358

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5358

Asn Leu Arg Phe Asp Asp Ala Glu Ala Leu Asp Tyr Thr Phe Ala Tyr
 1 5 10 15
 Phe Asp Lys Val His Leu Ser Leu Phe Ile Ser Ser Val Phe Phe Cys
 20 25 30
 Tyr Gln Arg Gln Leu Ile Ser Phe Val Pro Gln Tyr Phe Phe Cys Lys
 35 40 45
 Tyr Leu Pro Lys Phe Phe Gln Ile Leu Cys Lys Met Gln Val Ile Val

4773

50 55 60
 Glu Met Pro Val Tyr Ala Phe Met Leu Ala Ser Leu Asn
 65 70 75

 <210> 5359
 <211> 83
 <212> PRT
 <213> Homo sapiens

 <400> 5359
 Gln Ser Val Tyr Lys Arg Gly Leu Gln Lys Lys Met Arg Ala Cys Phe
 1 5 10 15
 Thr Gln Gln Lys Ile Trp Pro Phe Leu Asn Asp Thr Arg Arg Val Ile
 20 25 30
 Leu Ser His Thr Phe Pro Ser Phe Arg Trp Trp Thr Phe Val Glu Thr
 35 40 45
 Gly Thr Gln Trp Ser Asn Arg Leu Cys Pro Pro Val Ala Asp Ser Pro
 50 55 60
 Ala Gly Arg Trp Thr Arg Gly Pro Val Leu Thr Val Thr Arg Leu Ser
 65 70 75 80
 Leu Leu Glu

<210> 5360
 <211> 82
 <212> PRT
 <213> Homo sapiens

 <400> 5360
 Phe Tyr Pro Gly Arg Lys Ile Lys Gly Ser His Arg Ile Ala Leu Val
 1 5 10 15
 Lys Thr Lys His Thr Ile Ala Leu Thr Glu Tyr Leu Gly Asn Leu Pro
 20 25 30
 Asn Leu Leu Ile Phe Gly Val Cys Phe Leu Thr Val Gly Leu Trp Glu
 35 40 45
 Asp Val Ile Tyr Asp Gln Tyr Leu Pro Val Thr Leu Phe Ile Ser Leu
 50 55 60

4774

Ala Leu Lys Ala Asn Gly Gly Lys Lys Ser Met Lys Lys Lys Arg Leu
 65 70 75 80

Ile Lys

<210> 5361

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5361

Gly Lys Met Cys Ala Ala Gln Val Arg Glu Tyr Tyr Leu Ala Xaa Lys
 1 5 10 15

Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys
 20 25 30

Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu
 35 40 45

Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
 50 55 60

Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser Trp Arg Asn Ser
 65 70 75 80

Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Pro Glu
 85 90 95

4775

Trp Xaa Met Xaa
100

<210> 5362

<211> 379

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5362

Arg Pro Thr Arg Pro Val Phe Tyr Ala Xaa Glu Ser Trp Ile Lys Tyr
1 5 10 15

Asp Val Gln Glu Arg Gln Lys Tyr Leu Ala Gln Leu Leu Asn Ser Val
20 25 30

Arg Leu Pro Leu Leu Ser Val Lys Phe Leu Thr Arg Leu Tyr Glu Ala
35 40 45

Asn His Leu Ile Arg Asp Asp Arg Thr Cys Lys His Leu Leu Asn Glu
50 55 60

Ala Leu Lys Tyr His Phe Met Pro Glu His Arg Leu Ser His Gln Thr
65 70 75 80

Val Leu Met Thr Arg Pro Arg Cys Ala Pro Lys Val Leu Cys Ala Val
85 90 95

Gly Gly Lys Ser Gly Leu Phe Ala Cys Leu Asp Ser Val Glu Met Tyr
100 105 110

Phe Pro Gln Asn Asp Ser Trp Ile Gly Leu Ala Pro Leu Asn Ile Pro
115 120 125

Arg Tyr Glu Phe Gly Ile Cys Val Leu Asp Gln Lys Val Tyr Val Ile
130 135 140

Gly Gly Ile Ala Thr Asn Val Arg Pro Gly Val Thr Ile Arg Lys His
145 150 155 160

Glu Asn Ser Val Glu Cys Trp Asn Pro Asp Thr Asn Thr Trp Thr Ser
165 170 175

Leu Glu Arg Met Asn Glu Ser Arg Ser Thr Leu Gly Val Val Val Leu

4776

180					185					190					
Ala	Gly	Glu	Leu	Tyr	Ala	Leu	Gly	Gly	Tyr	Asp	Gly	Gln	Ser	Tyr	Leu
	195					200					205				
Gln	Ser	Val	Glu	Lys	Tyr	Ile	Pro	Lys	Ile	Arg	Lys	Trp	Gln	Pro	Val
	210					215					220				
Ala	Pro	Met	Thr	Thr	Thr	Arg	Ser	Cys	Phe	Ala	Ala	Ala	Val	Leu	Asp
	225					230					235				240
Gly	Met	Ile	Tyr	Ala	Ile	Gly	Gly	Tyr	Gly	Pro	Ala	His	Met	Asn	Ser
				245					250					255	
Val	Glu	Arg	Tyr	Asp	Pro	Ser	Lys	Asp	Ser	Trp	Glu	Met	Val	Ala	Ser
			260					265					270		
Met	Ala	Asp	Lys	Arg	Ile	His	Phe	Gly	Val	Gly	Val	Met	Leu	Gly	Phe
	275						280					285			
Ile	Phe	Val	Val	Gly	Gly	His	Asn	Gly	Val	Ser	His	Leu	Ser	Ser	Ile
	290					295					300				
Glu	Arg	Tyr	Asp	Pro	His	Gln	Asn	Gln	Trp	Thr	Val	Cys	Arg	Pro	Met
	305					310					315				320
Lys	Glu	Pro	Arg	Thr	Gly	Val	Gly	Ala	Ala	Val	Ile	Asp	Asn	Tyr	Leu
				325				330						335	
Tyr	Val	Val	Gly	Gly	His	Ser	Gly	Ser	Ser	Tyr	Leu	Asn	Thr	Val	Gln
			340				345					350			
Lys	Tyr	Asp	Pro	Ile	Ser	Asp	Thr	Trp	Leu	Asp	Ser	Ala	Gly	Met	Ile
	355					360					365				
Tyr	Cys	Arg	Cys	Asn	Phe	Gly	Leu	Thr	Ala	Leu					
	370					375									

<210> 5363

<211> 130

<212> PRT

<213> Homo sapiens

<400> 5363

Lys	His	Trp	Thr	Ser	Leu	Thr	Tyr	Phe	Phe	Ser	Phe	Ser	Ala	Phe	Arg
1				5					10					15	

Met	Ile	Pro	Tyr	Pro	Leu	Glu	Lys	Gly	His	Leu	Phe	Tyr	Pro	Tyr	Pro
			20					25					30		

4777

Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His Glu
 35 40 45

Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe Thr
 50 55 60

Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His Gln
 65 70 75 80

Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Met Ile Asp Ile Phe
 85 90 95

Cys Ser Ala Glu Phe Arg Asp Trp Asn Cys Lys Ser Ile Phe Met Arg
 100 105 110

Val Glu Asp Glu Leu Glu Ile Pro Pro Ala Pro Gln Ser Gln His Phe
 115 120 125

Gln Asn
 130

<210> 5364

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5364

Ser Ser Ala Leu Glu Val Leu Glu Phe Leu Ile Ser Phe Ile Gln Phe
 1 5 10 15

Gln Gly Leu Ile Phe Tyr Arg Leu Pro Arg Gln Phe Ile Gln Gly Leu
 20 25 30

Leu Tyr Leu Arg Phe Thr Cys His Val Arg Ser Ser Gly Phe Glu His
 35 40 45

Lys Leu Tyr Ser Trp Asp Leu Ser Asp Thr Pro Leu Leu Thr Gly Leu
 50 55 60

Gly Phe His Phe Ser Asp Pro Phe
 65 70

<210> 5365

<211> 62

<212> PRT

<213> Homo sapiens

4778

<400> 5365

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Ser Ala Pro Ser Pro Asn Leu Leu Pro Leu Gly Arg Val Gly Leu Arg
 1              5              10              15

Asp Leu Leu Ser Trp Lys Val Leu Thr Leu Pro Gly Glu Gly Ala Arg
          20              25              30

His Cys Pro Arg Glu Ser Asn Arg Arg Trp Lys Lys Ser Ile Lys Ser
          35              40              45

Asp Gln Asp Gly Gly Lys Lys Lys Lys Lys Lys Arg Gly Gly
          50              55              60

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<210> 5366

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5366

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Gln Leu Val Thr Val Glu Glu Ala Gly Trp Val Phe Ser Gly Pro Arg
 1              5              10              15

Lys Phe Lys Met Ser Ala Met Leu Ser Ile Ile Thr Phe Cys Cys Gln
          20              25              30

Lys Gly Trp Gln Ile Glu Ala Phe Leu Pro Ile Ala Phe Ser Glu Leu
          35              40              45

Pro Cys Gln Ser Phe Thr Leu Gly Lys Glu Arg Trp Ala Gly Ile Leu
          50              55              60

Gly Asn Arg Thr Pro Glu Thr Tyr Leu Cys Leu Pro Lys Asn Val Asp
 65              70              75              80

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<210> 5367

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

4779

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5367

Leu	Pro	Gln	Ala	Gln	Gly	Asp	Gln	Phe	Pro	Trp	Glu	Gln	Ala	Glu	Gly
1				5					10					15	

Gln	Ala	Pro	Gly	Glu	Asp	Gly	Gln	Arg	Leu	Pro	Asp	Gln	Ile	His	Pro
			20					25					30		

Gly	Val	Pro	Ala	Arg	Arg	Arg	Pro	Trp	Trp	Arg	Glu	Arg	Ala	Arg	Ala
		35					40					45			

Val	Arg	Gly	Leu	Xaa	Glu	Gly	Arg	Glu	Pro	Glu	Lys	Arg	Arg	Glu	Arg
	50					55					60				

Lys	Gln	Arg	Arg	Glu	Gly	Gly	Asp	Gly	Glu	Glu	Gln	Asp	Val	Gly	Asp
65					70					75					80

Ala	Gly	Arg	Leu	Leu	Leu	Arg	Val	Leu	His	Val	Ser	Glu	Asn	Pro	Val
			85						90					95	

Pro	Leu	Thr	Val	Arg	Val	Ser	Pro	Glu	Val	Arg	Asp	Val	Arg	Pro	Tyr
			100					105					110		

Ile	Val	Gly	Ala	Val	Val	Arg	Gly	Met	Asp	Leu	Gln	Pro	Gly	Asn	Ala
		115					120					125			

Leu	Lys	Arg	Phe	Leu	Thr	Ser	Gln	Thr	Lys	Leu	His	Glu	Asp	Leu	Cys
	130					135					140				

Glu	Lys	Arg	Thr	Ala	Ala	Thr	Leu	Ala	Thr	His	Glu	Leu	Arg	Ala	Val
145					150					155					160

Lys	Gly	Pro	Leu	Leu	Tyr	Cys	Ala	Arg	Pro	Pro	Gln	Asp	Leu	Lys	Ile
			165						170					175	

Val	Pro	Leu	Gly	Arg	Lys	Glu	Ala	Lys	Ala	Lys	Glu	Leu	Val	Arg	Gln
			180					185					190		

Leu	Gln	Leu	Glu	Ala	Glu	Glu	Gln	Arg	Lys	Gln	Lys	Lys	Arg	Gln	Ser
		195					200					205			

Val	Ser	Gly	Leu	His	Arg	Tyr	Leu	His	Leu	Leu	Asp	Gly	Asn	Glu	Asn
	210					215					220				

Tyr	Pro	Cys	Leu	Val	Asp	Ala	Asp	Gly	Asp	Val	Ile	Ser	Phe	Pro	Pro
225					230					235					240

4780

Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu
245 250 255

Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val
260 265 270

Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu
275 280 285

Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val
290 295 300

Ser	Gly	Gln	Leu	Pro	Asp	Pro	Thr	Thr	Asn	Pro	Ser	Ala	Gly	Lys	Asp
305					310					315					320

Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu
325 330 335

Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala
340 345 350

Pro Pro His Val Thr Val Val Xaa
355 360

<210> 5368

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5368

Ala Arg Xaa Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
1 5 10 15

4781

Ala Val Xaa Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Arg Asp Phe Glu His Ser Ser Asp Ile
 35 40

<210> 5369

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5369

Leu Gln Thr Lys Pro Ser Pro Ala Phe Phe Leu Leu Leu Leu Val Leu
 1 5 10 15

Gln Leu Gln Gly Pro Phe Thr Phe Met Ser Glu Met Glu Leu Trp Leu
 20 25 30

Phe Gln Trp Lys Asn Met Leu Lys Val Ser Phe Cys Ser Arg Lys Lys
 35 40 45

Lys Ser Leu Pro Lys Trp Gly Lys Lys Leu Tyr Ile Tyr Leu Ile Ile
 50 55 60

Gln Asn Thr Asp Gln Ser Leu Asp Leu Lys Lys Lys Lys Lys
 65 70 75

<210> 5370

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5370

Gly Ile Thr Ile Arg Lys Thr Val Cys Thr Cys Ser Leu Gln Met Gln
 1 5 10 15

Pro Leu Leu Ser Leu Thr Thr Ser Phe Tyr Leu Gln Leu Ile Glu Ser
 20 25 30

Met Asp Val Glu Pro Val His Met Glu Gly Gln Leu Tyr Tyr Lys
 35 40 45

<210> 5371

<211> 61

<212> PRT

4782

<213> Homo sapiens

<400> 5371

Thr Val Leu Ser Leu Ala Gly Leu Leu Gly Gly Lys Tyr Leu Gln Asn
1 5 10 15
Asn Gly Ile Val Leu Gly Phe Leu Leu Ala Leu Glu Thr His Leu Phe
20 25 30
Thr Asn Arg Phe Pro Glu Asp Thr Leu Ile Ser Pro Ser Tyr Leu Pro
35 40 45
Glu Cys Leu Leu Met Ala Ser Leu Lys Lys Gly Gly Leu
50 55 60

<210> 5372

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5372

Ser Ser Cys Pro Lys Ala Leu Trp Gly Pro Gly Trp Arg Ser Gln Gly
1 5 10 15
Ile Leu Tyr Asp Leu Ala Ile Gly Cys Lys Arg Lys His Ile Pro Cys
20 25 30
Cys Gly Ser Cys Ile Leu Phe His Ser Ser Pro Leu Lys Glu Lys Val
35 40 45
His Val Leu Ser Pro Ala His Pro
50 55

<210> 5373

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

4783

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5373

Glu	Lys	Leu	Ile	Leu	Leu	Leu	Ser	Leu	Pro	Gly	Ile	Asp	Ile	Asn	Xaa
1				5					10					15	

Lys	Asp	Asn	Ala	Gly	Trp	Thr	Pro	Leu	His	Glu	Ala	Cys	Asn	Tyr	Gly
			20					25					30		

Asn	Thr	Val	Cys	Val	Gln	Glu	Ile	Leu	Gln	Arg	Cys	Pro	Glu	Val	Asp
		35					40					45			

Leu	Leu	Thr	Gln	Val	Asp	Gly	Val	Thr	Pro	Leu	His	Asp	Ala	Leu	Ser
	50					55					60				

Asn	Gly	His	Val	Glu	Ile	Gly	Lys	Leu	Leu	Leu	Gln	His	Gly	Gly	Pro
65					70					75					80

Val	Leu	Leu	Gln	Gln	Arg	Asn	Ala	Lys	Gly	Glu	Leu	Pro	Leu	Asp	Tyr
			85						90					95	

Val	Val	Ser	Pro	Gln	Ile	Lys	Glu	Glu	Leu	Xaa	Ala	Ile	Thr	Lys	Ile
			100					105					110		

Xaa	Asp	Thr	Val	Glu	Asn	Phe	His	Ala	Gln	Ala	Glu	Lys	His	Phe	His
		115					120					125			

Tyr	Gln	Gln	Leu	Glu	Phe	Gly	Ser	Phe	Leu	Leu	Ser	Arg	Met	Leu	Leu
	130					135					140				

Asn	Phe	Cys	Ser	Ile	Phe	Asp	Leu	Ser	Ser	Glu	Phe	Ile	Leu	Ala	Ser
145					150					155					160

Lys	Gly	Leu	Thr	His	Leu	Asn	Glu	Leu	Leu	Met	Ala	Cys	Lys	Ser	His
				165				170						175	

Lys	Glu	Thr	Thr	Ser	Val	His	Thr	Asp	Trp	Leu	Leu	Asp	Leu	Tyr	Ala
			180					185					190		

Gly	Asn	Ile	Lys	Thr	Leu	Gln	Lys	Leu	Pro	His	Ile	Leu	Lys	Glu	Leu
		195					200					205			

Pro	Glu	Asn	Leu	Lys	Val	Cys	Pro	Gly	Val	His	Thr	Glu	Ala	Leu	Met
	210					215					220				

Ile	Thr	Leu	Glu	Met	Met	Cys	Arg	Ser	Val	Met	Glu	Phe	Ser		
225					230					235					

4784

<210> 5374

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5374

Ile	Lys	Asp	Cys	Leu	Lys	Thr	Lys	Gly	Asn	Leu	Thr	Asp	Glu	Lys	Lys
1				5					10					15	

Pro	Asp	Glu	Arg	His	Leu	Thr	Lys	Asn	Glu	Lys	Lys	Leu	Ser	Gly	Gln
			20					25					30		

Asn	Asn	Tyr	Glu	Lys	Met	Asn	Leu	Gln	Ile	Arg	Lys	Arg	Glu	Lys	Ser
		35					40					45			

Leu	Phe	Asp	Thr	Met	Gly	Thr	Gln	Lys	Arg	Val	Asn	Thr	Asn	Val	Lys
	50					55					60				

Ile	Pro	Arg	Val	Lys	Lys	Ser	Ile	Ile	Thr	Thr	Phe	Arg	Ala
65					70					75			

<210> 5375

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5375

Phe	Gly	Arg	Ala	Val	Thr	Gln	Ala	Gly	Val	Leu	Trp	His	Asn	Leu	Gly
1				5					10					15	

Leu	Leu	Gln	Pro	Gln	Phe	Leu	Gly	Leu	Asn	Ser	Pro	Pro	Thr	Ser	Ala
			20					25					30		

Ser	Trp	Val	Ala	Gly	Thr	Thr	Val	Thr	Ala	Leu	Pro	Cys	Pro	Asp	Asn
		35					40					45			

Phe	Phe	Phe	Phe	Phe	Xaa
					50

4785

<210> 5376

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5376

His	Phe	Thr	Val	Leu	Phe	Gly	Ile	Ile	Leu	Tyr	Glu	Ala	Val	Trp	Ile
1				5					10					15	

Gly	Leu	Leu	Phe	Pro	Leu	Val	Asn	Trp	Leu	Met	Leu	Arg	Phe	Trp	Leu
			20				25						30		

Leu	Glu	Ser	Ile	Cys	Val	Phe	Pro	Val	Leu	Ala	Ser	His	Tyr	Val	Ile
		35					40					45			

Cys	Xaa	Ile	Phe
		50	

<210> 5377

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5377

Met	Arg	Leu	Lys	Ser	Val	Cys	Val	Cys	Xaa	Arg	Ala	Arg	Met	Trp	Pro
1				5					10					15	

Lys	Asn	Ser	Ala	Ile	Met	Ser	Asn	Ser	Ser	Phe	Ala	Leu	Phe	Leu	Arg
			20				25						30		

Val	Asp	Asp	Ile	Arg	His	Phe	Ser	Val	Phe	Gly	Glu	Ile	Asp	Trp	Asp
		35					40					45			

Thr	Ser	Pro	Lys	Pro	Thr	Gln	Val	Cys	Asn	Trp	Lys	Pro	Gly	Gly	Trp
	50					55					60				

Phe	Ser	Gly	Pro	Leu	Cys	Pro	Leu	Ser	Phe	Thr	Val	Ile	Leu	Phe	Thr
65					70					75				80	

4786

Ser Thr

<210> 5378

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5378

Thr	Asn	Ser	Xaa	Phe	Asp	Lys	Gln	Asn	Asp	Asp	Pro	Lys	Glu	Arg	Ile
1				5					10					15	

Asp	Lys	Asp	Thr	Lys	Asn	Val	Asn	Ser	Asn	Thr	Gly	Met	Gln	Thr	Thr
			20					25					30		

Glu	Asn	Tyr	Leu	Thr	Glu	Lys	Gly	Asn	Glu	Arg	Asn	Val	Lys	Phe	Pro
		35					40					45			

Pro	Glu	His	Pro	Val	Glu	Asn	Asp	Val	Thr	Gln	Thr	Val	Ser	Ser	Phe
	50					55					60				

Ser	Leu	Pro	Ala	Ser	Ser	Arg	Ser	Lys	Lys	Leu	Cys	Asp	Val	Thr	Thr
65						70				75					80

Gly	Leu	Lys	Ile	His	Val	Ser	Ile	Pro	Asn	Arg	Ile	Pro	Lys	Ile	Val
				85						90				95	

Lys	Glu	Gly	Glu	Asp	Asp	Tyr	Tyr	Thr	Asp	Gly	Glu	Glu	Ser	Ser	Asp
			100					105					110		

Asp	Gly	Lys	Lys	Tyr	His	Val	Lys	Ser	Lys	Ser	Ala	Lys	Pro	Ser	Thr
		115						120				125			

Asn	Val	Lys	Lys	Ser	Ile	Arg	Lys	Lys	Tyr	Cys	Lys	Val	Ser	Ser	Ser
	130					135					140				

Ser	Ser	Ser	Ser	Leu	Ser	Ser	Ser	Ser	Ser	Gly	Ser	Gly	Thr	Asp	Cys
145					150					155					160

Leu	Asp	Ala	Gly	Ser	Asp	Ser	His	Leu	Ser	Asp	Ser	Ser	Pro	Ser	Ser
				165					170					175	

Lys	Ser	Ser	Lys	Lys	His	Val	Ser	Gly	Ile	Thr	Leu	Leu	Ser	Pro	Lys
			180					185					190		

4787

His Lys Tyr Lys Ser Gly Ile Lys Ser Thr Glu Thr Gln Pro Ser Ser
 195 200 205
 Thr Thr Pro Lys Cys Gly His Tyr Pro Glu Glu Ser Glu Asp Thr Val
 210 215 220
 Thr Asp Val Ser Pro Leu Ser Thr Pro Asp Ile Ser Pro Leu Gln Ser
 225 230 235 240
 Phe Glu Leu Gly Ile Ala Asn Asp Gln Lys Val Lys Ile Lys Lys Gln
 245 250 255
 Glu Asn Val Ser Gln Glu Ile Tyr Glu Asp Val Glu Asp Leu Lys Asn
 260 265 270
 Asn Ser Lys Tyr Leu Lys Ala Ala Lys Lys Gly Glu Glu Asn Leu Gly
 275 280 285
 Leu Leu
 290

<210> 5379

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5379

Pro Lys Thr Ala Phe Asp Ser Cys Ser Pro Thr Cys Ser Ser Pro Ser
 1 5 10 15
 Phe Leu His Leu Arg Asn Val Thr Ser Ser Ala Lys Ser Phe Pro Asp
 20 25 30
 Leu Ser Lys Ile Ile Thr Ser Ser Val Cys Cys Gly Asn Leu Tyr Arg
 35 40 45
 Met Val Gly Lys Phe Gln Val Ser Tyr Leu Asp
 50 55

<210> 5380

<211> 152

<212> PRT

<213> Homo sapiens

<400> 5380

Lys Leu Leu Leu Phe Ser Leu Ser Ile Leu Leu Phe Phe Gly Lys Gln

4788

1	5	10	15
Ser Leu Ser Pro Val Met Gly Gly Gly Gly Trp Glu Arg Leu His Ser	20	25	30
Thr Pro Trp Lys Trp Glu Tyr Pro Tyr Val Val Phe Gly Ile Phe Leu	35	40	45
Tyr Gly Lys Phe Val Ser Pro Ser His Pro Asn Leu Phe Thr Ser Val	50	55	60
Trp Thr His Val Tyr Phe Val Phe Trp Val Thr Gln Tyr Leu Phe Cys	65	70	75
Cys Leu Ser Cys Pro Ala Trp Leu Leu Gly Val Leu Pro Gly Trp Leu	85	90	95
Leu Cys Pro Phe Asp Val Pro Ile Leu Leu Ile Phe Glu His Phe Leu	100	105	110
Leu Ser Gly Thr Thr Arg Cys Ser Arg Phe Ile Leu Asp Ile Pro Cys	115	120	125
Pro Asn Pro Arg Ile Pro Arg Ile Asn Pro Cys Ser Lys Glu Pro Trp	130	135	140
Phe Leu Leu Leu Glu Asn His Thr	145	150	

<210> 5381

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5381

Phe Leu Cys Ser Val Val Tyr Phe Phe Phe Leu Leu Leu Leu Ser Pro	1	5	10	15
Leu Ser Pro Leu Lys Ala Gly Asn Arg Leu Leu Glu Asn Leu Arg Gly	20	25	30	
Lys Arg Ile Leu Phe Thr Gly Gly Ser Arg Lys Leu Ser Glu Arg Ser	35	40	45	

4789

Ile Val Leu Ser Pro Phe Pro Leu Ser Phe Gln Phe Gly Xaa Trp Trp
 50 55 60

Ser Glu Glu Glu Lys Glu Ile Leu Cys Met Tyr Val
 65 70 75

<210> 5382

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5382

Gly Asp Asp Phe Gly Arg Asn Pro Phe Gly Thr Thr His Pro Ala Met
 1 5 10 15

Ser Val Glu Lys Trp Asn Cys Asn Pro Gln Glu Ser His Phe Ile Phe
 20 25 30

Leu Pro Phe Lys Trp Leu Ile Lys Gly Ser Ala Ser Ser Thr Gly Phe
 35 40 45

Met Glu
 50

<210> 5383

<211> 133

<212> PRT

<213> Homo sapiens

<400> 5383

Asn Ala His Ala Gly Arg Tyr Cys Ser Tyr Gln Tyr Phe Ala Phe Tyr
 1 5 10 15

Asn Lys Gly Leu Phe Ile Leu Met Pro Phe Leu Gln Asp Phe Phe Val
 20 25 30

Ile Ser Val His Met Lys Met Leu Thr Leu Asn Ile Asn Thr Trp Arg
 35 40 45

Pro Cys Pro Val Ala Leu Pro Trp Leu Pro Ala Trp Ser Val Phe Pro
 50 55 60

Cys Gly Phe Thr Cys Gly Pro Ala Val Ala Thr Ser Met Val Cys Val
 65 70 75 80

Leu Val Asp Ser Leu Gln Leu Ser Asp Ala Ser Phe Cys His Asn His
 85 90 95

4790

Leu Phe Pro Asp Thr Ile Val Leu Ile Leu Phe Gln Asn Cys Lys Ile
 100 105 110

Ile Ser Ser Leu Lys Cys Lys Gly Cys Phe Cys Ser Val Ser Val Phe
 115 120 125

Phe Glu Ile Lys Leu
 130

<210> 5384

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5384

Tyr Leu Phe Ser Leu Leu Phe Met Ser Leu Cys Arg Ile Leu Gly Tyr
 1 5 10 15

Ser Phe Ser Ser Arg Leu Ser Ser Leu Ile Leu Pro Leu Ala Val Phe
 20 25 30

His Tyr Cys Leu Ser Cys Pro Leu His Phe Lys Leu Ser Phe Lys Tyr
 35 40 45

Leu Pro Phe Pro Ser Phe Pro Phe Ser Ser Leu Pro Cys Pro Ala Leu
 50 55 60

Pro Cys Pro Ala Leu Pro Ser Pro Pro Leu
 65 70

<210> 5385

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4791

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5385

Ile	Phe	Asp	Phe	Phe	His	Gln	Arg	Phe	Cys	Phe	Pro	Ala	Ile	Asp	Phe
1				5					10					15	

Ala	Tyr	Leu	Leu	Leu	Asp	Leu	Tyr	Leu	Lys	Val	Leu	Ser	Phe	Trp	Asn
			20					25					30		

Val	Cys	Phe	Cys	Thr	Cys	Phe	Ala	Asn	Xaa	Phe	Leu	Asn	Ser	Lys	Phe
		35					40					45			

Tyr	Cys	Leu	Ala	Tyr	Asn	Asn	Leu	Asn	Phe	Xaa	Tyr	Ile	Asn	Pro	Gly
	50					55					60				

Glu	Lys	Glu	Pro	Lys	Xaa	Thr
65					70	

<210> 5386

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5386

Leu	Ala	Asn	Cys	Ala	Phe	Lys	Lys	Lys	Asn	Arg	Gln	Thr	Phe	Glu	Gly
1				5					10					15	

Gln	Glu	Gly	Ser	Cys	Pro	Val	Phe	Gln	Lys	Ser	Phe	Phe	Pro	Ala	Ile
			20					25					30		

Arg	Asn	Val	Lys	Pro	Asn	Leu	Ala	Thr	Lys	Ile	Asn	Glu	Lys	Met	Gly
		35					40					45			

Phe	Pro	Leu	Val	Leu	Ser	Leu	Ser	Cys	Ser	Trp	Leu	Cys	Tyr	Val	Leu
	50					55					60				

Ser	Pro	Arg	Leu	Tyr	Pro	Asp	Lys	Met	Ser
65					70				

<210> 5387

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5387

4792

Gly Lys Arg His Ile Phe Ser Leu Thr Gln Leu Ala Asp Thr Glu Val
 1 5 10 15

Gly Arg Trp Gln Glu Lys Ala Ser Thr Glu Leu Ile Gln Thr Cys Arg
 20 25 30

Lys Leu Pro Leu Leu Leu Leu Ser Lys Met Lys Gly Ser Gly Lys Arg
 35 40 45

His Leu Pro Phe Pro Ala Leu Arg Ile Leu Ala Ser Leu Ser Leu Tyr
 50 55 60

<210> 5388

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5388

Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly
 1 5 10 15

Ser Thr His Ala Ser Ala Asn Ser Phe Val Lys Phe Ala Asn Ile Glu
 20 25 30

Glu Asp Thr Pro Ser Tyr His Arg Arg Tyr Asp Phe Phe Val Ser Arg
 35 40 45

Phe Ser Ala Met Cys His Ser Cys His Ser Asp Pro Glu Ile Arg Thr
 50 55 60

Glu Ile Arg Ile Ala Gly Ile Arg Gly Ile Gln Gly Val Val Arg Lys

4793

65		70		75		80
Thr Val Asn Asp Glu Leu Arg Ala Thr Ile Trp Glu Pro Gln His Met						
	85			90		95
Asp Lys Ile Val Pro Ser Leu Leu Phe Asn Met Gln Lys Ile Glu Glu						
	100		105		110	
Val Asp Ser Arg Ile Gly Pro Pro Ser Ser Pro Ser Ala Thr Asp Lys						
	115		120		125	
Glu Glu Asn Pro Ala Val Leu Ala Glu Asn Cys Phe Arg Glu Leu Leu						
	130		135		140	
Gly Arg Ala Thr Phe Gly Asn Met Asn Asn Ala Xaa Arg Pro Val Phe						
145		150		155		160
Ala His Leu Asp His His Lys Leu Xaa Asp Pro Asn Glu Phe Ala Val						
	165		170		175	
His Cys Phe Lys Ile Ile Met Tyr Ser Ile Gln Ala Gln Tyr Ser His						
	180		185		190	
His Val Ile Gln Glu Ile Leu Gly His Leu Asp Ala Arg Lys Lys Asp						
	195		200		205	
Ala Pro Gly Phe Glu Gln Val Leu Phe Arg Phe Xaa						
	210		215		220	

<210> 5389

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4794

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5389

Leu	Cys	Val	Arg	Cys	Ser	Lys	Lys	Val	Ala	Gln	Ser	Val	Met	Arg	Lys
1				5					10					15	

Leu	Xaa	Gly	Tyr	Ile	Leu	Ser	Arg	Met	Asn	Arg	Gln	Asp	Ser	Leu	Lys
		20						25					30		

Asn	Phe	Leu	Gly	Asn	Glu	Lys	Xaa	Ala	Xaa	Cys	Asn	Xaa	Phe	Met	Pro
		35					40					45			

Ile	Ile	Pro	Asn	Thr	Xaa	Gly	Gly	Leu	Lys	Gly	Glu	Asp	His	Phe	Xaa
	50					55					60				

Pro

65

<210> 5390

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5390

Ile	Cys	Glu	Ile	Leu	Ser	Leu	Cys	Pro	Phe	Pro	Thr	Ser	Gly	Pro	Thr
1				5					10					15	

Pro	Gly	Pro	Ser	Pro	Thr	Phe	Leu	Leu	Ser	Ser	Leu	Ala	Val	Val	Ile
		20						25					30		

Ile	Trp	Gly	Leu	Tyr	Cys	Thr	Tyr	Pro	Gly	Cys	Val	Cys	Val	Gly	Trp
		35					40					45			

Gly	Gln	Pro	Phe	Cys	Thr	Glu	Leu	Pro	Gly	Pro	Leu	Pro	Pro	Arg	Pro
		50					55				60				

4795

Ser Ala Ser Leu Pro Thr His His Leu Lys Gly Arg Glu Leu Leu Phe
 65 70 75 80

Leu Pro Val Leu Phe Cys Phe Leu Val Leu Pro Pro His Pro Thr Pro
 85 90 95

Ser Leu Ile Tyr Pro Pro Ser Leu Ser Pro Phe Leu His Ser Gln Pro
 100 105 110

His Phe Leu Phe Phe Trp Ser Val Trp
 115 120

<210> 5391

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5391

Phe Thr Asn Trp Arg Leu Leu Ile Leu Ile His Leu Arg Phe Lys Ile
 1 5 10 15

Phe Ile Asn Cys Lys Gln Cys Asn Tyr Leu Tyr Phe Thr Val Pro Ser
 20 25 30

Gln Thr Phe His Leu Arg Phe Cys Cys Lys Lys His Gln Val Ser Xaa
 35 40 45

Thr

<210> 5392

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5392

Leu Leu Ala Ala Gly Ile Ser Glu Glu Gly Leu Val Leu Ile Leu Lys

4796

1 5 10 15
 Val Leu Cys Ser Cys Pro Arg Pro Glu Xaa Thr His Ala Glu Thr Leu
 20 25 30
 Pro Ser Pro Ser Lys Val Gln Gly Leu Val Thr Glu Tyr Trp Val Glu
 35 40 45
 His Met Thr Gly Ser Gln Leu Ile Pro Pro Ser Leu Pro Val Lys Pro
 50 55 60
 Gln Asp Ser Cys Phe Pro Gly Ser His Leu Arg Pro Leu Arg
 65 70 75

<210> 5393

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5393

Val Leu His His Val Leu Ile His Leu Ile Leu Thr Glu Ile Val Asn
 1 5 10 15
 Xaa Gly Ile Ile Leu Ile Leu Thr Leu Trp Ile Lys Lys Thr Lys Ala
 20 25 30
 Gln Arg Val Lys Ala Ser Leu Pro Glu Ile Ile Asp Cys Lys Phe Glu
 35 40 45

Arg

<210> 5394

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5394

Ile Leu Thr Pro Pro Leu Cys Asp Ile Gln Lys Leu Asn Ser Lys Cys
 1 5 10 15
 Asn Lys His Leu Asn Ile Arg Ile Lys Thr Ile Lys Leu

4797

20

25

<210> 5395

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5395

Ala	Glu	Ala	Glu	Phe	Ala	Met	Asp	Ser	Asn	His	Gln	Ser	Asn	Tyr	Lys
1				5					10					15	

Leu	Ser	Lys	Thr	Glu	Lys	Lys	Phe	Leu	Arg	Lys	Gln	Ile	Lys	Ala	Lys
			20					25					30		

His	Thr	Leu	Leu	Arg	His	Glu	Gly	Ile	Glu	Thr	Val	Ser	Tyr	Ala	Thr
		35					40					45			

Gln	Ser	Leu	Val	Val	Ala	Asn	Gly	Gly	Leu	Gly	Asn	Gly	Val	Ser	Arg
	50					55					60				

Asn	Gln	Leu	Leu	Pro	Val	Leu	Glu	Lys	Cys	Gly	Leu	Val	Asp	Ala	Leu
65					70					75					80

Leu	Met	Pro	Pro	Asn	Lys	Pro	Tyr	Ser	Phe	Ala	Arg	Tyr	Arg	Thr	Thr
				85					90					95	

Glu	Glu	Ser	Lys	Arg	Ala	Tyr	Val	Thr	Leu	Asn	Gly	Lys	Glu	Val	Val
			100					105					110		

Asp	Asp	Leu	Gly	Gln	Lys	Ile	Thr	Leu	Tyr	Leu	Asn	Phe	Val	Glu	Lys
		115					120					125			

Val	Gln	Trp	Lys	Glu	Leu	Arg	Pro	Gln	Ala	Leu	Pro	Pro	Gly	Leu	Met
	130					135					140				

Val	Val	Glu	Glu	Ile	Ile	Ser	Ser	Glu	Glu	Glu	Lys	Met	Leu	Leu	Glu
145					150					155					160

Ser	Val	Asp	Trp	Thr	Glu	Asp	Xaa	Asp	His	Gln	Asn	Ser	Gln	Lys	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4798

165 170 175

Leu Lys Thr Xaa Lys Ser Lys Ala Phe Trp Leu
180 185

<210> 5396
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5396

Phe Phe Pro Phe Gly Asn Ser Val Asn Pro Ala Val Gly Cys Cys Leu
1 5 10 15

Ser Asp Tyr Lys Arg Leu Gly Ser Cys Phe Cys Phe Lys Cys Leu Arg
20 25 30

Leu Trp Ser Tyr Thr Leu Val Leu Gly Gln Ser Glu His Cys Leu
35 40 45

Leu Cys Lys Ile Ile Ser Phe Arg Val Xaa Ser Cys Gln Ile Tyr Trp
50 55 60

Pro Leu Ile Gln Tyr Ser Trp Val Tyr Cys Met
65 70 75

<210> 5397
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4799

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5397

Glu Asp Gln Glu Lys Lys Glu Leu Lys Met Glu Lys Ala Thr Val Arg
 1 5 10 15

Thr Val Gly Tyr Arg Arg Arg Asn Ser Gly Ser Thr Xaa Asp Pro Pro
 20 25 30

Pro Gly Xaa Met Ser Phe Gln Glu Trp Asn Pro Ser Leu Val Met Val
 35 40 45

Ser Xaa Pro Val Leu Pro Ala Ser Thr Leu Pro Cys Pro Pro Arg Gly
 50 55 60

Val Ser Glu Ser Ala Ser Gly Phe Leu Met Met Val Val Val Val Val
 65 70 75 80

Val

<210> 5398

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5398

Tyr Phe Val His His Asn Phe Cys Ile Tyr Phe Phe Lys Tyr Cys Ile
 1 5 10 15

Lys Ile Ser Phe Ser Leu Ile Ile Glu Phe Phe Gly Leu Arg Phe Phe
 20 25 30

Val Ala Ser Phe Phe Phe Ser Phe Phe Pro Pro Leu Phe Phe Gly Cys
 35 40 45

Pro Leu Lys Phe Cys Pro Lys Ala Gly Thr Ser Leu Ile Ser Ser Leu
 50 55 60

Ala Gln Pro Cys Trp Leu Val Phe Ser Ile Tyr Phe Ser Lys Ile Phe
 65 70 75 80

Val Ser Val

4800

<210> 5399

<211> 227

<212> PRT

<213> Homo sapiens

<400> 5399

Phe Ile Leu Arg Arg Leu Thr Met Asn Glu Leu Asn Ser Val Ser Asp
 1 5 10 15

Leu Asp Arg Cys His Leu Tyr Leu Met Val Leu Thr Glu Leu Ile Asn
 20 25 30

Leu His Leu Lys Val Gly Trp Lys Arg Gly Asn Pro Ile Trp Arg Val
 35 40 45

Ile Ser Leu Leu Lys Asn Ala Ser Ile Gln His Leu Gln Glu Met Asp
 50 55 60

Ser Gly Gln Glu Pro Thr Val Gly Ser Gln Ile Gln Arg Val Val Ser
 65 70 75 80

Met Ala Ala Leu Ala Met Val Cys Glu Ala Ile Asp Gln Lys Pro Glu
 85 90 95

Leu Gln Leu Asp Ser Leu His Ala Gly Pro Leu Glu Ser Phe Leu Ser
 100 105 110

Ser Leu Gln Leu Asn Gln Thr Leu Gln Lys Pro His Ala Glu Glu Gln
 115 120 125

Ser Ser Tyr Ala His Pro Leu Glu Cys Ser Ser Val Leu Glu Glu Ser
 130 135 140

Ser Ser Ser Gln Gly Trp Gly Lys Ile Val Ala Gln Tyr Ile His Asp
 145 150 155 160

Gln Trp Val Cys Leu Ser Phe Leu Leu Lys Lys Tyr His Thr Leu Ile
 165 170 175

Pro Thr Thr Gly Ser Glu Ile Leu Glu Pro Phe Leu Pro Ala Val Gln
 180 185 190

Met Pro Ile Arg Thr Leu Gln Ser Ala Leu Glu Ala Leu Thr Val Leu
 195 200 205

Ser Ser Asp Gln Val Leu Pro Val Phe His Cys Leu Lys Val Leu Val
 210 215 220

Pro Asn Phe
 225

4801

<210> 5400

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5400

Gln	Thr	Cys	Arg	Phe	Leu	Leu	Met	Trp	Glu	Lys	Ile	Leu	Ile	Ile	Asn
1				5					10					15	

Asp	Ile	Lys	Val	Ile	Ile	Phe	Ser	Tyr	Val	Tyr	Arg	Tyr	Leu	Tyr	Phe
			20					25					30		

Phe	Leu	Asn	Glu	Leu	Leu	Met	Thr	Phe	Val	Tyr	Phe	Tyr	Leu	Gly	Leu
		35					40					45			

Leu	Leu	Ser	His	Leu	Phe	Leu
	50					55

<210> 5401

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5401

Gln	Ala	Arg	Leu	Pro	Ser	Ala	Asn	Leu	Ser	Asn	Trp	Gly	Gly	Glu	Arg
1				5					10					15	

Xaa	Ser	Ser	Ser	Glu	Gly	Arg	Ala	Arg	Cys	Gln	Ile	Cys	Ser	Ser	Ala
			20					25					30		

Pro	Ala	Ser	Ala	Ala	Arg	Arg	Arg	Ala	Glu	Gly	Ala	Pro	Gly	Pro	Arg
			35				40					45			

4802

Pro Val Thr Gly Arg Ala Gly Ala Pro Ala Val Arg Gly Arg Arg Arg
 50 55 60

Gly Pro Cys Arg Cys Trp Gly Thr Arg Tyr Arg Pro Cys Xaa Pro Arg
 65 70 75 80

Pro Pro Pro Xaa Gly Pro Leu Leu Ala Pro
 85 90

<210> 5402

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5402

Ile Arg His Glu Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val
 1 5 10 15

Lys Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro
 20 25 30

Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys Leu
 35 40 45

<210> 5403

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5403

Phe Gly Thr Arg Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu
 1 5 10 15

Val Glu Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr
 20 25 30

Asp Glu Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu
 35 40 45

Ile Ala Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu
 50 55 60

Glu Lys Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu

4803

65 70 75 80
 Asp Leu Gln Lys Ala Leu Lys Arg Glu Trp Gly Asn Ile Ser Lys Asn
 85 90 95
 Asp Ser Leu Leu
 100

<210> 5404
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 5404
 Pro His Arg Thr Ala Phe Ser Cys Phe Ser Asp Thr Leu Met Lys Val
 1 5 10 15
 Trp Arg Ser Gly Asp Ile Ile Asp Lys Ile Tyr Gln Phe Pro Glu Lys
 20 25 30
 Thr Leu Asp Leu Lys Thr
 35

<210> 5405
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 5405
 Asp His Thr Gly Gln Arg Gly Leu His Ser His Leu Arg Leu Gln Asp
 1 5 10 15
 Gly Arg Pro Ala Ala Gly Gly Thr Arg Gly His Arg Ala Pro Leu Pro
 20 25 30
 Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg
 35 40 45
 Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Ser
 50 55 60

<210> 5406
 <211> 183
 <212> PRT
 <213> Homo sapiens

4804

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5406

Leu	Pro	Pro	Gln	Ala	Phe	Asn	His	Ile	Ala	Lys	Leu	Cys	Ser	Leu	Lys
1				5					10					15	

Arg	Leu	Val	Leu	Tyr	Arg	Thr	Lys	Val	Glu	Ile	Glu	Asp	Tyr	Asp	Val
			20					25					30		

Ile	Ala	Ser	Met	Ile	Gly	Ala	Lys	Cys	Lys	Lys	Leu	Arg	Thr	Leu	Asp
		35					40					45			

Leu	Trp	Arg	Cys	Lys	Asn	Ile	Thr	Glu	Asn	Gly	Ile	Ala	Glu	Leu	Ala
	50					55					60				

Ser	Gly	Cys	Pro	Leu	Leu	Glu	Glu	Leu	Asp	Leu	Gly	Trp	Cys	Gln	Leu
65					70					75					80

Cys	Arg	Xaa	His	Arg	Val	Phe	Thr	Arg	Leu	Ala	His	Gln	Leu	Pro	Asn
			85						90					95	

Leu	Gln	Lys	Leu	Phe	Leu	Thr	Ala	Asn	Arg	Ser	Val	Cys	Asp	Thr	Asp
			100					105					110		

Ile	Asp	Glu	Leu	Ala	Cys	Asn	Cys	Thr	Arg	Leu	Gln	Xaa	Leu	Asp	Ile
		115						120				125			

Leu	Xaa	Thr	Arg	Met	Val	Ser	Pro	Ala	Ser	Leu	Arg	Lys	Leu	Leu	Glu
	130					135					140				

Ser	Cys	Lys	Asp	Leu	Ser	Leu	Leu	Asp	Val	Ser	Phe	Cys	Ser	Gln	Ile
145					150					155					160

Asp	Asn	Arg	Ala	Val	Leu	Glu	Leu	Asn	Ala	Ser	Phe	Pro	Lys	Val	Phe
				165					170					175	

Ile	Lys	Lys	Ser	Phe	Thr	Gln
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4805

180

<210> 5407

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5407

Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
 1 5 10 15

Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu
 20 25 30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg
 35 40 45

Trp Gly Val Gly Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser
 50 55 60

Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val
 65 70 75 80

Val Phe Phe Pro Phe Tyr Asp Gly Phe
 85

<210> 5408

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5408

His Ile Xaa Thr His Thr Gly Glu Arg Pro Phe Lys Cys Pro Phe Glu
 1 5 10 15

Gly Cys Gly Arg Ser Phe Thr Thr Ser Asn Ile Arg Lys Val His Val
 20 25 30

Arg Thr His Thr Gly Glu Arg Pro Tyr Tyr Cys Thr Glu Pro Gly Cys
 35 40 45

Gly Arg Ala Phe Ala Ser Ala Thr Asn Tyr Lys Asn His Val Arg Ile

4806

50	55	60
His Thr Gly Glu Lys Pro Tyr Val Cys Thr Val Pro Gly Cys Asp Lys		
65	70	75 80
Arg Phe Thr Glu Tyr Ser Ser Leu Tyr Lys His His Val Val His Thr		
	85	90 95
His Ser Lys Pro Tyr Asn Cys Asn His Cys Gly Lys Thr Tyr Lys Gln		
	100	105 110
Ile Ser Thr Leu Ala Met His Lys Arg Thr Ala His Asn Asp Thr Glu		
	115	120 125
Pro Ile Glu Glu Glu Gln Glu Ala Phe Phe Glu Pro Pro Pro Gly Gln		
	130	135 140
Gly Glu Asp Val Leu Lys Gly Ser Gln Ile Thr Tyr Val Thr Gly Val		
145	150	155 160
Glu Gly Asp Asp Val Val Ser Thr Gln Val Ala Thr Val Thr Gln Ser		
	165	170 175
Gly Leu Ser Gln Gln Val Thr Leu Ile Ser Gln Asp Gly Thr Gln His		
	180	185 190
Val Asn Ile Ser Gln Ala Asp Met Gln Ala Ile Gly Asn Thr Ile Thr		
	195	200 205
Met Val Thr Gln Asp Gly Thr Pro Ile Thr Val Pro Ala His Asp Ala		
	210	215 220
Val Ile Ser Ser Ala Gly Thr His Ser Val Ala Met Val Thr Ala Glu		
225	230	235 240
Gly Thr Glu Gly Gln Gln Val Ala Ile Val Ala Gln Asp Leu Ala Ala		
	245	250 255
Phe His Thr Ala Ser Ser Glu Met Gly His Gln Gln His Ser His His		
	260	265 270
Leu Val Thr Thr Glu Thr Arg Pro Leu Thr Leu Val Ala Thr Ser Asn		
	275	280 285
Gly Thr Gln Ile Ala Val Gln Leu Gly Glu Gln Pro Ser Leu Glu Glu		
	290	295 300
Ala Ile Arg Ile Ala Ser Arg Ile Gln Gln Gly Glu Thr Pro Gly Leu		
305	310	315 320
Asp Asp		

4807

<210> 5409

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5409

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Leu Arg Leu Gln Glu Pro Ala Thr Thr His Pro Cys Pro Pro Thr Leu
 1             5             10             15

Gly Leu Ile Phe Val Thr Ser Pro His Tyr Ser Glu Leu Val Arg Pro
          20             25             30

Leu His Phe Cys Phe Thr Gln Leu Thr Trp Phe Ala His Thr Asp Thr
          35             40             45

Asn Lys His Leu Ser Ile Pro Met Ser Leu Leu Ser Ser Lys Asn Thr
          50             55             60

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<210> 5410

<211> 27

<212> PRT

<213> Homo sapiens

<400> 5410

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Ser Thr His Ala Ser Gly Ser Arg Ser Arg Ala Ala Ala Leu Phe Phe
 1             5             10             15

Phe Phe Lys Arg Phe Cys Thr Gly Lys Lys Lys
          20             25

```

<210> 5411

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5411

```

Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp
 1             5             10             15

Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys

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4808

20							25					30				
Phe	Lys	Leu	Lys	Leu	Leu	Ser	Val	Pro	Leu	Arg	Glu	Gly	Tyr	Gly	Arg	
		35				40						45				
Ile	Pro	Arg	Gly	Ala	Leu	Leu	Ser	Met	Asp	Ala	Leu	Asp	Leu	Thr	Asp	
		50				55						60				
Lys	Leu	Val	Ser	Phe	Tyr	Leu	Glu	Thr	Tyr	Gly	Ala	Glu	Leu	Thr	Ala	
65				70						75				80		
Asn	Val	Leu	Arg	Asp	Met	Gly	Leu	Gln	Glu	Met	Ala	Gly	Gln	Leu	Gln	
				85				90						95		
Ala	Ala	Thr	His	Gln	Gly	Ser	Gly	Ala	Ala	Pro	Ala	Gly	Ile	Gln	Ala	
		100						105						110		
Pro	Pro	Gln	Ser	Ala	Ala	Lys	Pro	Gly	Leu	His	Phe	Ile	Asp	Gln	His	
		115				120						125				
Arg	Ala	Ala	Leu	Ile	Ala	Arg	Val	Thr	Asn	Val	Glu	Trp	Leu	Leu	Asp	
130						135						140				
Ala	Leu	Tyr	Gly	Lys	Val	Leu	Thr	Asp	Glu	Gln	Tyr	Gln	Ala	Val	Arg	
145				150						155				160		
Ala	Glu	Pro	Thr	Asn	Pro	Ser	Lys	Met	Arg	Lys	Leu	Phe	Ser	Phe	Thr	
				165				170						175		
Pro	Ala	Trp	Asn	Trp	Thr	Cys	Lys	Asp	Leu	Leu	Leu	Gln	Ala	Leu	Arg	
		180						185						190		
Glu	Ser	Gln	Ser	Tyr	Leu	Val	Glu	Asp	Leu	Glu	Arg	Ser				
		195				200						205				

<210> 5412

<211> 158

<212> PRT

<213> Homo sapiens

<400> 5412

Ser Cys Cys Arg Cys Arg Cys Ala Arg Ala Thr Gly Ala Arg Asp Ala
1 5 10 15

Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys Phe
20 25 30

Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala
35 40 45

4809

Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln
 50 55 60
 Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
 65 70 75 80
 Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His
 85 90 95
 Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp
 100 105 110
 Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg
 115 120 125
 Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His
 130 135 140
 Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro
 145 150 155

<210> 5413

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5413

Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Lys Lys Gln Met Leu
 1 5 10 15
 Lys Ser Tyr Trp Gln Ser Lys Leu Lys Leu Ala Ala Ile Phe Tyr Ile
 20 25 30
 Ile Ile Ser Ala Asn Pro Ile Phe
 35 40

<210> 5414

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

4810

<400> 5414

Ser Cys Leu Met Phe Phe Asn Met Pro Ser Tyr Lys Tyr Phe Ile Gln
 1 5 10 15

Tyr Val Val Phe Val Asn Leu Thr Asn Asp Ile Lys His Lys Leu Gln
 20 25 30

Cys Arg Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60

Lys Gly Xaa Pro Phe
 65

<210> 5415

<211> 186

<212> PRT

<213> Homo sapiens

<400> 5415

Ala His Ala Ser Asp Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe
 1 5 10 15

Asp Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro
 20 25 30

Asn Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala
 35 40 45

Leu Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly
 50 55 60

Gly Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu
 65 70 75 80

Gln Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg
 85 90 95

Pro Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg
 100 105 110

Ser Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu
 115 120 125

Gly Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu
 130 135 140

4811

Glu Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile
 145 150 155 160

Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu
 165 170 175

Met Arg Thr Glu Glu Lys Lys Lys Lys Lys
 180 185

<210> 5416

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5416

Cys Tyr Ser Cys Gln Thr Asn Ser Ala Lys Ile Phe Lys Val Thr Arg
 1 5 10 15

Gly Lys Arg Met Thr Asn Arg Ser Ala Ser Glu Tyr Ile Phe Gln Asn
 20 25 30

Val Gly Lys Lys Leu Leu Asn
 35

<210> 5417

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5417

Gly Ile Ser Ser Gly Arg Thr Arg Arg Glu Ser Cys Glu Leu Tyr Cys
 1 5 10 15

Ile Met Tyr Ile Pro Asp Leu Ile Leu Tyr Arg Thr Phe Tyr Ser Asp
 20 25 30

Ile Asn Leu Leu His Lys His Phe Ser Asn Asp Thr Lys Ile Thr Asp
 35 40 45

Lys Ile Tyr Tyr Ile Gln
 50

<210> 5418

<211> 91

<212> PRT

4812

<213> Homo sapiens

<400> 5418

Val Pro Pro Thr Pro Gly Gln His Gln Asp Gly Ser Ser Leu Gly Ala
 1 5 10 15

Phe Val Ser Pro Pro Cys Leu Cys Ser Glu Cys Ala Pro His Phe Ser
 20 25 30

Ala Thr Leu Thr Leu Ser Leu Ile Trp Ser Cys Leu Thr Ser Leu Leu
 35 40 45

Tyr Ala Leu Leu Leu Ser Ile Ser Ser Ala Leu Met Pro Ala Gly Val
 50 55 60

Met Pro Glu Ile Ile Ser Glu Lys Ala Arg Gln Phe Cys Val Cys Val
 65 70 75 80

Cys Ala His Arg Gly Val Leu Val Val Leu Ile
 85 90

<210> 5419

<211> 36

<212> PRT

<213> Homo sapiens

<400> 5419

Val Lys Asn Gly Lys Gln Lys Val Thr Ala Val Met Asn Ile Leu Val
 1 5 10 15

Gln Ile Leu Val Leu Asn Leu Thr Pro Glu Ser Lys Ile Leu Gly Ser
 20 25 30

Leu Phe Pro Val
 35

<210> 5420

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4813

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5420

Lys	Ser	Lys	Glu	Asn	Arg	Asn	Gln	Phe	Glu	Gly	Leu	Gln	Gly	Gly	Leu
1				5				10						15	

Leu	Ala	Gln	Leu	Ser	Ile	Asn	Thr	Tyr	Gly	Val	Ile	Ala	Val	Phe	Ser
		20						25					30		

Arg	Gly	Val	Leu	Leu	Arg	Ser	Gly	Phe	Leu	Gly	Leu	His	Ala	Ala	Met
		35					40					45			

Asp	Leu	Asp	Xaa	Pro	Ser	Val	Trp	Gly	Ser	Leu	Lys	Gln	Arg	Thr	Arg
	50					55					60				

Pro	Leu	Leu	Ile	Asn	Leu	Ser	Xaa	Lys	Lys	Val	Lys	Lys	Asn	Pro	Ser
65					70					75				80	

Lys	Pro	Pro	Asp	Leu	Arg	Ala	Arg	His	His	Leu	Asp	Arg	Arg	Leu	Xaa
				85					90					95	

<210> 5421

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5421

Gln	Asn	Ile	Ser	Ser	Xaa	Leu	Ile	Gly	Pro	Thr	Xaa	Val	Phe	Arg	Val
1				5				10					15		

4814

Met Lys Leu Arg Phe Phe Cys Val Trp Leu His His Glu Ile Leu Arg
 20 25 30

Arg Pro Lys Pro
 35

<210> 5422

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5422

Xaa Lys Cys Lys Tyr Lys Thr Phe Gln Ile Lys Ile Glu Tyr Ala His
 1 5 10 15

Cys Ser Lys Ala Lys Leu Leu Pro Tyr Tyr Ile Tyr Phe Thr Ser Leu
 20 25 30

Ile Phe Ser Pro Ser Lys Met His Trp Tyr Ser Gly Leu Glu Ser Glu
 35 40 45

Ser Phe Ala Ile Lys Leu Thr Tyr Xaa Gly Phe Asn Pro Leu Lys Val
 50 55 60

Gln

65

<210> 5423

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5423

Gly Thr Ser Arg Pro Ser His Tyr His Val Leu Trp Asp Asp Asn Cys
 1 5 10 15

4815

Phe Thr Ala Asp Glu Leu Gln Leu Leu Thr Tyr Gln Leu Cys His Thr
20 25 30

Tyr Val Arg Cys Thr Arg Ser Val Ser Ile Pro Ala Pro Ala Tyr Tyr
35 40 45

Ala His Leu Val Ala Phe Arg Ala Arg Tyr His Leu Val Asp Lys Glu
50 55 60

His Asp Arg
65

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<210> 5424
<211> 96
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5424
Pro Ile Gly Trp Lys Thr Arg Pro Ile Glu Glu Leu Gly Asn Val Ser
1 5 10 15

Phe Cys Tyr Phe Cys Tyr Ser Ser Leu Gly Phe Ile Val Ser Phe Phe
20 25 30

Ile Phe Lys Ile Leu Cys Leu Lys Val Phe Leu Leu Asn Tyr Glu Val
35 40 45

Asp Met His Val Tyr Ile Tyr Val Lys Tyr Leu Leu Cys Lys Val Phe
50 55 60

Phe Val Tyr Ser Leu Lys Arg Ser Leu Tyr Leu Asn Lys Ser Glu Gly
65 70 75 80

Gln Gln Xaa Lys Xaa Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

85 90 95

4816

<210> 5425

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5425

Arg	Thr	Pro	Val	Val	Pro	Ala	Thr	Xaa	Glu	Ala	Lys	Val	Gly	Gly	Ser
1				5					10				15		

Leu	Glu	Pro	Gly	Arg	Gln	Arg	Leu	Gln
			20				25	

<210> 5426

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5426

Glu	Gln	Ser	Arg	Gln	Gly	Ile	Pro	Asn	Arg	Ile	Asn	Ser	Arg	Phe	Leu
1				5					10				15		

Ile	Gln	Lys	Pro	Cys	Lys	Pro	Arg	Lys	Ala	Met	Gly	Asp	Ile	Leu	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4817

20 25 30
 Asn Ala Glu Ile Lys Thr Val Gln Gln Thr Phe Pro His Pro Gln Gln
 35 40 45
 Lys Ser Xaa Asn Lys Gly Lys Ser Cys Cys Met Xaa Asn Leu Asn Lys
 50 55 60
 Ile Gly Phe Pro Ala Gly Xaa Phe Gly Xaa Asn Phe Pro Pro Leu Asn
 65 70 75 80
 Val Pro

<210> 5427

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5427

Arg Gly Leu Ala Xaa Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu
 1 5 10 15
 Tyr Gly Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr
 20 25 30
 Ser Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr
 35 40 45
 Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala His
 50 55 60
 Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser Pro Phe
 65 70 75 80
 Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val Leu Arg Ser
 85 90 95
 Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn Lys Gln Thr Leu
 100 105 110
 Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu Ser Met Cys Val Gly
 115 120 125

4818

Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys Thr His Ile Ser Arg Leu
 130 135 140

Pro Pro Gly Ala Val Ala Gly Gln Ser Val Ala Ile Glu Gly Gly Val
 145 150 155 160

Cys Arg Leu Glu Ser Pro Val Asn
 165

<210> 5428

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5428

Phe Asn Phe Glu Phe Lys Pro Lys Phe Ile Gly Arg Leu Pro Phe Asp
 1 5 10 15

Leu Pro Leu Pro Pro His Leu Val Leu Ser Cys Ile Tyr Thr Pro Gly
 20 25 30

Pro Cys Gly Gly Ala Ala Gly Gly Ser Cys Ala Pro Glu Met Arg Leu
 35 40 45

Glu Arg Glu Leu Ala Ser Leu Leu Pro Ser Ser Val Ser Lys Glu Pro
 50 55 60

Arg Pro Ser Gly Pro Ala Ser Xaa Lys Arg Trp Trp Asn Pro Cys Ala
 65 70 75 80

Gly

<210> 5429

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4819

<400> 5429

Tyr Met Leu Gly Glu Lys Ile Tyr Glu Asn Phe Thr Ile Ile Phe Cys
 1 5 10 15

Leu Asp Asn Arg Ser Glu Gly Phe Tyr Pro Thr Trp Lys Val Lys Gly
 20 25 30

Leu Gly Leu Thr Asp Phe Leu Xaa Phe Ser Leu Asp Phe Met Lys Ser
 35 40 45

Met Leu Ser Phe Ser Gln Lys His
 50 55

<210> 5430

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5430

Gln Cys Arg Glu Val His Leu Glu Lys Arg Arg Gly Glu Gly Leu Gly
 1 5 10 15

Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu Leu Pro Thr Ala Val
 20 25 30

Ile Ala Asn Leu Leu His Gly Gly Pro Xaa Glu Arg Ser Gly Ala Leu
 35 40 45

Ser Ile Gly Asp Pro Leu Thr Gly Xaa Lys Gly Asp Gln Pro
 50 55 60

<210> 5431

<211> 133

<212> PRT

<213> Homo sapiens

4820

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5431

Phe	Leu	Gln	His	Trp	Ala	Ile	Arg	Asn	Asn	Phe	Leu	Lys	Ile	Thr	Val
1				5					10					15	

Leu	Tyr	Lys	Tyr	Leu	Lys	Phe	Lys	Tyr	Arg	Lys	Tyr	Leu	Lys	Gln	Lys
		20						25					30		

Ala	Leu	Leu	Xaa	Gly	His	Asp	Thr	Ser	Ala	Leu	Trp	Gln	Cys	Arg	Leu
		35					40						45		

Leu	Arg	Thr	Gln	Pro	Cys	Ser	Pro	Ser	Val	Cys	Ala	Pro	Ser	Leu	Ser
	50					55					60				

Ser	Phe	Ala	Val	Ile	Thr	His	Thr	Gly	Leu	Pro	Val	Trp	Ser	Leu	Glu
65					70				75						80

Lys	Pro	Gly	Phe	Gln	Ser	Thr	Val	Glu	His	Arg	Ile	Leu	Leu	Leu	Val
				85					90					95	

Trp	Met	Phe	Asn	Glu	Leu	Tyr	Phe	Lys	Tyr	Gln	Arg	Leu	Leu	Asn	Lys
			100					105					110		

Asp	Asn	Val	Cys	Phe	Ser	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Xaa	Xaa	Lys	Xaa	Lys
				130

<210> 5432

4821

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5432

Val	Lys	Gly	Glu	Trp	Ser	Gln	Tyr	Pro	Gln	Lys	Cys	Ser	Lys	Arg	Ser
1				5					10					15	

Asn	Ser	Pro	Leu	Lys	Met	Ser	Leu	Phe	Leu	Ser	Met	Leu	Tyr	Pro	Gly
			20					25					30		

Val	Leu	Val	Glu	Gly	Trp	Gly	Asn	Gln	Lys	Ser	Arg	Phe	Thr	Phe	Asn
		35					40					45			

Ile	Phe	Leu	Asn	Tyr	Ile	His	Phe	Leu	Lys	Arg	Asn	Lys	Lys	Cys	Lys
	50					55					60				

<210> 5433

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5433

His	Ile	Arg	Asn	Lys	Ile	Leu	Gly	Tyr	Phe	Ile	Xaa	Leu	Ala	Tyr	Phe
1				5					10					15	

Phe	His	Asn	Leu	Arg	Ile	Thr	Val	Phe	Val	Glu	Glu	Ile	Arg	Gln	Ala
			20					25					30		

Asn	Lys	Val	Ala	Lys	Glu	Ala	Ala	Asn	Arg	Trp	Thr	Asp	Asn	Ile	Phe
		35					40					45			

Ala	Ile	Lys	Ser	Trp	Ala	Lys	Arg	Lys	Phe	Gly	Phe	Glu	Glu	Asn	Lys
	50					55					60				

Ile	Asp	Arg	Thr	Phe	Gly	Ile	Pro	Glu	Asp	Phe	Asp	Tyr	Ile	Asp
65					70					75				

<210> 5434

4822

<211> 183

<212> PRT

<213> Homo sapiens

<400> 5434

Gly Leu Leu Val Gly Val Gly Ala Ala Ala Val Met Pro Gly Ile Val
 1 5 10 15

Glu Leu Pro Thr Leu Glu Glu Leu Lys Val Asp Glu Val Lys Ile Ser
 20 25 30

Ser Ala Val Leu Lys Ala Ala Ala His His Tyr Gly Ala Gln Cys Asp
 35 40 45

Lys Pro Asn Lys Glu Phe Met Leu Cys Arg Trp Glu Glu Lys Asp Pro
 50 55 60

Arg Arg Cys Leu Glu Glu Gly Lys Leu Val Asn Lys Cys Ala Leu Asp
 65 70 75 80

Phe Phe Arg Gln Ile Lys Arg His Cys Ala Glu Pro Phe Thr Glu Tyr
 85 90 95

Trp Thr Cys Ile Asp Tyr Thr Gly Gln Gln Leu Phe Arg His Cys Arg
 100 105 110

Lys Gln Gln Ala Lys Phe Asp Glu Cys Val Leu Asp Lys Leu Gly Trp
 115 120 125

Val Arg Pro Asp Leu Gly Glu Leu Ser Lys Val Thr Lys Val Lys Thr
 130 135 140

Asp Arg Pro Leu Pro Glu Asn Pro Tyr His Ser Arg Pro Arg Pro Asp
 145 150 155 160

Pro Ser Pro Glu Ile Glu Gly Asp Leu Gln Pro Ala Thr His Gly Ser
 165 170 175

Arg Phe Tyr Phe Trp Thr Lys
 180

<210> 5435

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5435

Gly Thr Gly Cys Cys Ala Glu Gly Arg Pro Glu Ser Gln Ser Ile Phe
 1 5 10 15

4823

Phe Thr Gly Ser Ala Gly Thr Gly Lys Ser Tyr Leu Leu Lys Arg Ile
 20 25 30

Leu Gly Ser Leu Pro Pro Thr Gly Thr Val Ala Thr Ala Ser Thr Gly
 35 40 45

Val Ala Ala Cys His Ile Gly Gly Thr Thr Leu His Ala Phe Ala Gly
 50 55 60

Lys
 65

<210> 5436

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5436

His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1 5 10 15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
 20 25 30

4824

Arg Xaa Arg Glu Leu Val Ser Ser Phe Xaa Phe Xaa Phe Phe His Gly
35 40 45

<210> 5437

<211> 62

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5437

Glu Leu Trp Ser Pro Cys Leu Val Leu Phe Lys Thr Leu Cys Tyr Thr
1 5 10 15

Gly Val Asp Pro Gly Leu Lys Val Ile Gln Phe Trp Gly Leu Ser Leu
20 25 30

Arg Lys Arg Ile Leu Lys Tyr Leu Thr Phe Ala Asn Ile Xaa Lys Ile
35 40 45

Tyr Cys His Ile Asn Met Leu Leu Gly Pro Leu Leu Gly Pro
50 55 60

<210> 5438

<211> 163

<212> PRT

<213> Homo sapiens

<400> 5438

Ser Phe Phe Phe Phe Ser Arg Ser His Val Ser Leu Leu Leu Pro Thr
1 5 10 15

Ala Thr Tyr Phe Ile Pro His Gly Ser Arg His Ser Ser Thr Leu Thr
20 25 30

Asn Phe Leu Thr Pro Ser Ser Phe Leu Glu Ile Ile Ser Ser Pro Cys
35 40 45

Ala Glu Thr Val Ile Ala Leu Ser Ala Glu Met Ala Val Ser Ser Gln
50 55 60

4825

Gln Gly Glu Ile Met Glu Ser Arg Ile Phe Phe Gln Gly Ser His Ala
 65 70 75 80
 His Phe Pro Thr Cys Met Asn Val Asp Thr Ala Ala Thr Val Leu Ala
 85 90 95
 Val Asn Val Asn Leu Ala Ser Asn His Cys Ser Gln Gly Asn Val Pro
 100 105 110
 Ile Arg Arg Arg Leu Ser Gly Thr Leu Ile Leu Thr Gly Arg Trp Asp
 115 120 125
 Ile Leu Arg Asp Pro Glu Ala Gly Cys His Leu Leu Asn Phe Pro Glu
 130 135 140
 Gly Cys Leu Gly Ile Cys Phe Leu Phe Ile Leu Glu Leu Phe Phe Leu
 145 150 155 160
 Phe Met Gly

<210> 5439

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5439

Gln Gly Ile Leu Tyr Phe His Tyr Asn Gln Ile Ile Glu Ile Thr Cys
 1 5 10 15

Val Lys Gly Leu Gln Glu Tyr Ile Gln Phe Leu Asn Ile Leu Ile Tyr
 20 25 30

4826

Leu Leu Ser Asp Asn Leu Ile Leu Leu Asn Tyr His Leu Pro Leu Ser
35 40 45

Tyr Phe Ile Ile Asn Ser Val Gln Phe Pro Pro Lys Lys Xaa Xaa Tyr
50 55 60

Leu Xaa Asn Ile
65

<210> 5440

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

4827

<400> 5440

```

Val Ile Pro Trp Arg Thr Xaa Ser Ala Asn Xaa Glu Xaa Asp Leu His
  1             5             10             15

Tyr Leu Xaa Leu Xaa Thr Xaa Thr Trp Ser Gly Arg Ile Thr Ile Asn
      20             25             30

Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala
      35             40             45

Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile Pro
      50             55             60

Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys Gln
      65             70             75             80

Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala Cys
      85             90             95

Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp Asp
      100            105            110

Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe Gln
      115            120            125

Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly Lys
      130            135            140

Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys Leu
      145            150            155            160

Leu Gln Xaa Val Leu Lys Lys Lys Lys Lys
      165            170

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<210> 5441

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

4828

<400> 5441

```

Ile Gly Ser Val Pro Ala Val Pro Asn Gly Gln Cys Ile Gly Lys His
 1              5              10              15

Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu Leu
              20              25              30

Asp Cys Tyr Pro Thr Glu Glu Pro Ala Pro Gln Ala Thr Asn Thr Val
              35              40              45

Gly Ser Val Ile Gly Val Ile Val Thr Ile Phe Val Ser Gly Thr Val
              50              55              60

Tyr Phe Ile Cys Gln Arg Met Leu Cys Pro Arg Met Lys Gly Asp Gly
 65              70              75              80

Glu Thr Met Thr Asn Asp Tyr Val Val His Gly Pro Ala Ser Val Pro
              85              90              95

Leu Gly Tyr Val Pro His Pro Ser Ser Leu Ser Gly Ser Leu Xaa Xaa
              100              105              110

Met Ser Arg Gly Lys Ser Met Ile
              115              120

```

<210> 5442

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5442

```

Asn Met Tyr Lys Asn Gly Tyr Lys Met Val Glu Ala Thr Arg Ser Val
 1              5              10              15

Thr Gly Ile Ile His Ile Asn Thr Thr Lys Ile Gln Phe Asn Ala Lys
              20              25              30

Leu Asn Asp Ile Ile Leu His Gln Asn Leu Phe His Thr Lys Ala His
              35              40              45

Ala Ser Arg Val Ser Ile Arg
              50              55

```

<210> 5443

<211> 125

<212> PRT

<213> Homo sapiens

4829

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5443
 Leu Leu Lys Arg Ser His Phe Asn Cys Phe Cys Tyr Ser Ile Tyr Cys
 1 5 10 15
 His Ser Lys Tyr Ile Leu Thr Gln Asn Lys Leu Asn Asn Leu Cys Met
 20 25 30
 Phe Val Cys Val Tyr Met His Thr Leu Phe Tyr Ile Lys Ile Leu Arg
 35 40 45
 Leu Tyr Ser His Cys Ala Leu Trp Asn Lys Ala Ile Tyr Ile Asn Val
 50 55 60
 Leu Tyr Val Tyr Val Leu Tyr Ile Xaa Lys Thr Phe His Leu Ile Tyr
 65 70 75 80
 Ile Cys Val Xaa Glu Tyr Met Cys Ala Cys Leu Ala Asp Ile Cys Ile
 85 90 95
 Lys Tyr Lys His Ser Val Val Ile Xaa Ala Ile Cys Glu Ile Val Asn
 100 105 110
 Phe Lys Ile Thr Ser Gly His Arg Leu Val Val Ile Ile
 115 120 125

<210> 5444
 <211> 287
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)

4830

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5444

Gly	Ala	Met	Ala	Pro	Lys	Pro	Gly	Ala	Glu	Trp	Ser	Thr	Ala	Leu	Ser	1	5	10	15
His	Leu	Val	Leu	Gly	Val	Val	Ser	Leu	His	Ala	Ala	Val	Ser	Thr	Ala	20	25	30	
Glu	Ala	Ser	Arg	Gly	Ala	Ala	Ala	Gly	Phe	Leu	Leu	Gln	Val	Leu	Ala	35	40	45	
Ala	Thr	Thr	Thr	Leu	Ala	Pro	Gly	Leu	Ser	Thr	His	Glu	Asp	Cys	Leu	50	55	60	
Ala	Gly	Ala	Trp	Val	Ala	Thr	Val	Ile	Gly	Leu	Pro	Leu	Leu	Ala	Phe	65	70	75	80
Asp	Phe	His	Trp	Val	Asn	Gly	Asp	Arg	Ser	Ser	Ala	Asn	Leu	Leu	Leu	85	90	95	
Gly	Gly	Gly	Met	Val	Leu	Ala	Val	Ala	Gly	Gly	His	Leu	Gly	Pro	Glu	100	105	110	
Ala	Xaa	Cys	Gly	Trp	Ser	Gly	Asn	Ala	Val	Gly	Gly	Arg	Ser	Asp	His	115	120	125	
Pro	His	Cys	Ser	Cys	Leu	His	Gly	Gln	His	Leu	Trp	Asp	Val	Gly	Gly	130	135	140	
Gly	Asp	Ala	Gly	Cys	Gly	Arg	Pro	Pro	Glu	Pro	Ala	Gly	Gly	Gly	Gln	145	150	155	160
Ala	Ala	Ala	Ala	Thr	Glu	Gly	Gly	Cys	Leu	Ser	Leu	Gly	Leu	Gly	Cys	165	170	175	
Arg	Gln	Leu	Gly	Leu	Leu	Pro	Gly	Pro	Ala	Tyr	Thr	Ala	Pro	Pro	Val	180	185	190	
Gly	Val	Thr	Val	Gly	Tyr	Ser	Gln	Ala	Gly	Phe	Leu	Pro	Cys	Arg	Thr	195	200	205	
Leu	Ser	Leu	Pro	Pro	Ala	Cys	Ser	Trp	Arg	Leu	Leu	Pro	Arg	Gly	Arg	210	215	220	
Leu	Phe	Cys	Leu	Leu	Lys	Trp	Val	Cys	Cys	Thr	Leu	Thr	Gly	Gln	Gly	225	230	235	240
Gln	Ser	Leu	Gly	Ala	Val	Leu	Trp	Pro	Arg	Val	Gly	Thr	Cys	Leu	Asp	245	250	255	

4831

Gln Asn Glu Arg Asp Arg Val Pro Asp Thr Phe Gly Gly Pro Asp Ser
 260 265 270

Gly Leu Asp Thr Val Val Asp Pro Glu Lys Arg Pro Ser Leu Gln
 275 280 285

<210> 5445

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5445

Ser His Ala Cys Pro Leu Thr Phe Thr Arg Asn Ser Glu Lys Gln Ser
 1 5 10 15

Thr Tyr Phe Ala Thr Gln Trp Ser Ser Ser Leu Asn Thr Phe Ile Gln
 20 25 30

Arg Ser Thr Asn Tyr Asp Pro Pro Val Lys Ser Tyr Leu Ala Leu Val
 35 40 45

Phe Val Asn Lys Val Leu Leu Glu His
 50 55

<210> 5446

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5446

Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr
 1 5 10 15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys
 20 25 30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp
 35 40 45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly
 50 55 60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val
 65 70 75 80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly
 85 90 95

4832

Cys Thr Leu Phe
100

<210> 5447

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5447

Arg Ser Trp Gly Ser Xaa Trp Lys Gln Glu Asp Pro Ile Gln Gln Arg
1 5 10 15

Pro Leu Arg Leu Val Leu His Phe Leu Arg Glu Leu Ser Val Gly Ser
20 25 30

His His Pro Ala His Trp Leu Pro Pro Lys Pro Pro Pro Leu Thr Ser
35 40 45

Ala Asn Leu Leu Phe Gly Asp Pro Leu Ser Asp Pro Leu Cys Leu Pro
50 55 60

Ser Trp Ser Ser Ser Trp Arg Ile Ser Gly Gln Arg Gly Gly Gln Arg
65 70 75 80

Ser Phe Pro Ile Pro Pro Gln Arg Tyr Phe Leu Leu Gly Pro His Thr
85 90 95

Leu Thr Pro Ser Ser Glu Met Asn Thr Phe Leu Leu Leu Leu Leu Arg
100 105 110

Gln Ser Glu Thr Pro Ser
115

<210> 5448

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5448

Leu Leu Val Ser Asp Leu Thr Leu Leu Ser Lys Tyr Ser Ile Ile Ala
1 5 10 15

4833

Arg Phe Thr Glu Phe Arg Ser Leu Lys Val Tyr Ile Leu Phe Pro Tyr
 20 25 30

Val Asp Lys Leu Val Ser Leu Leu Leu Glu Tyr His Lys Val Phe Val
 35 40 45

Lys Ile Thr Gln Val Ile Lys
 50 55

<210> 5449

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5449

His Ala Phe Phe Leu Lys Leu Phe Arg Val Val Glu Ile Ala Ala Cys
 1 5 10 15

His Ser Xaa His Thr Ser Ala Ala Lys Thr Gln Gly Gly His Val Tyr
 20 25 30

Met Trp Gly Gln Cys Arg Gly Gln Ser Val Ile Leu Pro His Leu Thr
 35 40 45

His Phe Ser Cys Thr Asp Asp Val Phe Ala Cys Phe Ala Thr Pro Ala
 50 55 60

Val Ser Trp Arg Leu Leu Ser Val Gly Lys Lys Val Gln Gly His Phe
 65 70 75 80

Thr Gln Gly Gly Met Val Leu Pro Thr Asp Gln Phe Ser Cys Val Phe
 85 90 95

Ala Gly

<210> 5450

<211> 186

<212> PRT

<213> Homo sapiens

4834

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5450

Gly Gly Xaa Asp Gln Gly Gln Glu Pro Gly Pro Leu Glu Glu Gln Gln
 1 5 10 15

Arg Leu Ala His Leu Glu Asp Lys Leu Arg Leu Leu Ala Gln Ala Arg
 20 25 30

Asp Glu Ala Gln Gly Ala Cys Leu Gln Gln Lys Gln Val Val Ala Glu
 35 40 45

Ala Gln Thr Arg Val Ser Gln Leu Gly Leu Gln Val Glu Gly Leu Arg
 50 55 60

Arg Arg Leu Glu Glu Leu Gln Gln Glu Leu Ser Leu Lys Asp Gln Glu
 65 70 75 80

Arg Val Ala Glu Val Ser Arg Val Arg Val Glu Leu Gln Glu Gln Asn
 85 90 95

Gly Arg Leu Gln Ala Glu Leu Ala Ala Gln Glu Ala Leu Arg Glu Lys
 100 105 110

Ala Ala Ala Leu Glu Arg Gln Leu Lys Val Met Ala Ser Asp His Arg
 115 120 125

Glu Ala Leu Leu Asp Arg Glu Ser Glu Asn Ala Ser Leu Arg Glu Lys
 130 135 140

Leu Arg Leu Arg Glu Ala Glu Ile Ala Arg Ile Arg Asp Glu Glu Ala
 145 150 155 160

Gln Arg Ala Ser Phe Leu Gln Asn Ala Val Leu Ala Tyr Val Gln Ala
 165 170 175

Ser Pro Val Arg Thr Leu Ser Pro Pro Lys
 180 185

<210> 5451

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5451

Pro Met Ala Asn Pro Ile Leu Lys Leu Val Asn Ser Asp Gln Ser Tyr

4835

1 5 10 15
Phe Thr Tyr Pro Thr Gln Ser Gly Pro Lys Gln Ile Ala Gly Ser Ala
 20 25 30
Ser Lys Pro Thr Phe Leu Pro Lys
 35 40

<210> 5452
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5452
Leu Ser Arg Lys Leu Leu Leu Leu Arg Phe Lys Asn Glu Asn Arg Cys
1 5 10 15
Glu Phe Ser Lys Ile Leu Lys Asn Asn Ser Val Lys Asn Ser Gly Ala
 20 25 30
Val Lys Glu Ser Trp Met Glu Leu Glu Val Thr Ile Leu Ser Asp Ile
 35 40 45
Ser Gln Lys Gln Thr Asn Ile Ala Cys Ser Gln Leu Phe Ala Gly Ser
 50 55 60
Lys Ser Gln Asn Asn
65

<210> 5453
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)

4836

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5453

Leu Glu Arg Gly Trp Cys Glu Ser Cys Leu Thr Thr Ala Pro Ser Pro
1 5 10 15

Pro Cys Ala Ala Glu Gly Thr Pro Ala Ala His Arg Phe Gln Glu Ala
20 25 30

Leu Ser Asp Phe Trp Leu Ala Leu Glu Gln Leu Arg Gly His Ala Ala
35 40 45

Ile Asp Tyr Thr Gln Leu Gly Leu Arg Phe Lys Leu Gln Pro Gly Arg
50 55 60

Cys Tyr Thr Met Trp Arg Arg His Ser Ala Ser Trp Gly Ser Gly Gln
65 70 75 80

Arg Arg Gln Gln Pro Lys Gly Gly His Val Gln Val Ala Gly Gly Ser
85 90 95

Leu Asn Gly Leu Asp Ser Ala Leu Asp Gln Val Gln Arg Arg Gly Ser
100 105 110

Leu Pro Xaa Gly Xaa Ser Pro Gly Arg Xaa Xaa Pro Ala Pro Xaa Trp
115 120 125

Thr

<210> 5454

<211> 84

<212> PRT

<213> Homo sapiens

<400> 5454

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ser Gly Asp Lys Leu
1 5 10 15

4837

Lys Leu Asp Gln Thr His Leu Glu Thr Val Ile Pro Ala Pro Gly Lys
 20 25 30

Arg Ile Leu Val Leu Asn Gly Gly Tyr Arg Gly Asn Glu Gly Thr Leu
 35 40 45

Glu Ser Ile Asn Glu Lys Thr Phe Ser Ala Thr Ile Val Ile Glu Thr
 50 55 60

Gly Pro Leu Lys Gly Arg Arg Val Glu Gly Ile Gln Tyr Glu Asp Ile
 65 70 75 80

Ser Lys Leu Ala

<210> 5455

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5455

Ile Phe Leu Leu Phe Ser Thr Phe Pro Gln Ile His Val Ser Glu Val
 1 5 10 15

Leu Ser Phe Gly His His Tyr Leu Ser Thr Leu Arg Asn Met Pro Ile
 20 25 30

Asp Glu Val Asn Ile Leu Gly Ile Gln Arg Ile Tyr Gly Asn Val Asp
 35 40 45

Lys Asp Ile Tyr Gln Asp Lys Ala Leu Glu
 50 55

<210> 5456

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

4838

<400> 5456

Glu Thr Thr Lys Gln Thr Gln Lys Lys Glu His Asn Asn Arg Asp Lys
1 5 10 15

Ile Lys Phe Arg Gln Gln Xaa Thr Glu Xaa Ile Leu Lys Thr Arg Ile
20 25 30

Cys Ser Leu Arg Ile Phe Phe Ile Ile Lys Met Ile Phe Gly
35 40 45

<210> 5457

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5457

Asn Pro Phe Ala Ser Gly Gln Phe Gln Thr Arg Ile Leu Ala Cys Pro
1 5 10 15

Ala Ser His Gly Met Pro Leu Pro Tyr Cys Gln Cys Asp Leu Ser Glu
20 25 30

Thr Ala Tyr Leu Ile Leu Ser Phe Pro Gly Ala Ala Ser His Leu Pro
35 40 45

Gln Asp Leu Asn Phe Lys Leu Tyr Ser Ser Pro His Ser Pro Gln Gln
50 55 60

<210> 5458

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

4839

<400> 5458

Val Leu Val Ser Leu Pro Val Pro Thr Gln Ile Ala Ser Gln Asn Phe
 1 5 10 15

Asp Pro Ala Thr Val Ser Val Ala Thr Xaa His Lys Gly Ala Glu Pro
 20 25 30

Ser Arg Gly Thr Ala Trp Gly Pro Val Ala Lys Arg Leu Gln Gln Glu
 35 40 45

Leu Met Thr Leu Met Met Xaa Gly Asp Lys Arg Ile Ser Ala Thr Leu
 50 55 60

Lys Ala Leu Ser Asn Gly His His Ser
 65 70

<210> 5459

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5459

Pro Lys Val Leu Gly Leu Gln Ala Glu Pro Pro Arg Pro Ala Leu Leu
 1 5 10 15

Leu Leu Leu Arg Phe Glu Asn Arg Cys Leu Asn Ala Pro Asp Ser Ala
 20 25 30

Leu Leu Thr Gln Arg Phe Pro His Leu Ile Tyr Ser Val Pro Ala Gln
 35 40 45

Ser Pro Phe Ser Leu Met Pro Arg Ala Gly Phe Ser Leu Pro Ala Pro
 50 55 60

Arg Phe Trp Ser Pro Pro Ser Val Leu Gly Pro Ser Cys Pro Leu Ser
 65 70 75 80

Gly Phe Arg Pro Ser Gln His Ser Leu Ala Ser Leu Pro
 85 90

<210> 5460

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5460

Gly Arg Pro Phe Gly Asn Leu Cys Leu Asn Ser Asn Arg Arg Glu Asn

4840

1 5 10 15
 Val Gln Ala Met Gly Leu Leu Pro Ile Ser Leu Cys Phe Ala Ile Pro
 20 25 30
 Trp Asp Lys Gly Thr Thr Ser Gly Ser Gln Ser Pro Asn Gln Tyr His
 35 40 45
 Arg Val
 50

<210> 5461

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5461

Glu Pro Ser Ser Val His Lys Lys Pro Ile Glu Ser Arg Ser His Phe
 1 5 10 15
 Ile Arg Trp Gln Val Ser Trp Ala Ser Leu Leu Ala Ser Pro Lys Arg
 20 25 30
 Trp Cys Cys Gln Asp Val Leu Glu Val Ile Met Gly His Thr Glu Ala
 35 40 45
 Leu Ser Leu His Arg Leu Lys Cys His Gln Asn Trp Pro Leu Pro Asn
 50 55 60
 Ile Pro His
 65

<210> 5462

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5462

Glu Arg Glu Ile Leu Met Ala Pro Met Ala Ala Arg Ile Thr Ser Leu
 1 5 10 15
 Lys Phe Arg Ala Cys Val Asn Arg Phe Cys Phe Leu Val Ser Glu Arg
 20 25 30
 Phe Ser Tyr Ser Thr Val Leu Ile Cys Phe Ser Lys Pro Ser Asp Leu
 35 40 45

4841

Cys Ile Phe Asn Arg Pro Gln Asn Asn Val Lys Tyr Met Ala
 50 55 60

<210> 5463

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5463

Lys Tyr Gln Ile Ile Leu Trp Asn Val Lys Ala Phe Leu Leu Lys Pro
 1 5 10 15

Ser Ile Cys Phe Ile Val Ile Ser Val Ala Asn Met Asp Phe Ile Phe
 20 25 30

Lys Met Met Phe Tyr Ile Ile Phe Pro Tyr Lys Leu Phe Glu Lys Gln
 35 40 45

Phe Asn Asn Ser Met Ile Val Val Ala Pro Leu Asn
 50 55 60

<210> 5464

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5464

Trp Gln Ser Asn Phe Phe Cys Leu Phe Pro Arg Glu Ser Trp Glu Tyr
 1 5 10 15

Pro Glu Leu Gly Ala Leu Met Ile Leu Phe Gln Leu Trp Cys Leu Lys
 20 25 30

Lys Asn Tyr Lys Ser Ile Leu Asn Gly Leu Ser Ser
 35 40

<210> 5465

<211> 20

<212> PRT

<213> Homo sapiens

<400> 5465

Glu Cys Lys Leu Val Gln Pro Ser Trp Lys Thr Gly Trp Gln Phe Leu
 1 5 10 15

4842

Lys Asp Leu Cys
20

<210> 5466

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5466

Gln Lys Ile Glu Leu Ser Phe Arg Val Ser Lys Lys Val Leu Tyr Ser
1 5 10 15

Cys Cys Thr Pro Gly Ser Trp Gln Gly Gly Asp Phe Cys Pro Arg Glu
20 25 30

Cys Ser Phe Leu Cys Ile Ile Ala Lys Gln Phe Cys Ser Cys Ile Leu
35 40 45

Lys His His Trp Met Asn Phe Phe Pro Leu
50 55

<210> 5467

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4843

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5467

Leu Leu Ile Glu Thr Cys Xaa Val Glu Lys Leu Phe Leu Ser Leu Leu
 1 5 10 15

Ala Ile Gln Val Ser Ser Phe Met Lys Trp Leu Phe Met Ser Phe Ala
 20 25 30

His Phe Tyr Ile Xaa Leu Phe Phe Phe Phe Pro Ala Xaa Leu Xaa Glu
 35 40 45

Leu Tyr Ile Leu Ser Ile Leu Ile Ile Tyr Arg Lys Leu Phe Gly Cys
 50 55 60

His Tyr Leu Leu Leu Val Asn Val Phe Cys Leu Trp Ile Ser Phe Ile
 65 70 75 80

Ile Tyr Xaa

<210> 5468

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5468

Gln Ala Leu Thr Leu Cys Lys Lys Gly Gly Arg Gly His Ser Trp Ala
 1 5 10 15

Gly Gly Val Gly Xaa Gln Asp Gly Cys Pro Ser Leu Pro Ile Phe Ser
 20 25 30

Trp Leu Trp Asp Gln Arg Leu Val Leu Gly Ile Trp Thr Trp Arg Pro
 35 40 45

Arg Ala Ile Gly Glu Gly Leu Lys Pro Val Leu Ser Ala Ala Cys Cys
 50 55 60

Glu Trp Pro Ser Arg Val Met Thr Glu Leu Phe Trp Gly Arg Arg
 65 70 75

4844

<210> 5469

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5469

Ala	Arg	Gly	Ala	Gly	Ala	Ala	Gly	Ser	Arg	Cys	Val	Ser	Gly	Glu	Gly
1				5					10					15	

Ala	Pro	Arg	Leu	Gly	Arg	Arg	Arg	Arg	Gln	Arg	Leu	Glu	Glu	Arg	Glu
			20					25					30		

Arg	Arg	Phe	Pro	Cys	Pro	Gly	Pro	Arg	Glu	Gly	Arg	Pro	Thr	Ala	Ala
		35					40					45			

Met	Glu	Gln	Leu	Ser	Asp	Glu	Glu	Ile	Asp	His	Gly	Ala	Glu	Glu	Asp
	50					55					60				

Ser	Asp	Lys	Glu	Asp	Gln	Asp	Leu	Asp	Lys	Met	Phe	Gly	Ala	Trp	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4845

65		70		75		80									
Gly	Glu	Leu	Asp	Lys	Leu	Thr	Gln	Ser	Leu	Asp	Ser	Asp	Lys	Pro	Met
				85					90					95	
Glu	Pro	Val	Lys	Arg	Ser	Pro	Leu	Arg	Gln	Glu	Thr	Asn	Met	Ala	Asn
			100					105					110		
Phe	Ser	Tyr	Arg	Phe	Xaa	Ile	Tyr	Asn	Leu	Asn	Glu	Ala	Leu	Asn	Gln
		115					120					125			
Gly	Glu	Thr	Val	Asp	Leu	Asp	Ala	Leu	Met	Ala	Asp	Leu	Cys	Ser	Ile
		130				135					140				
Glu	Gln	Glu	Leu	Ser	Ser	Ile	Gly	Ser	Gly	Asn	Ser	Lys	Arg	Gln	Ile
145					150					155					160
Thr	Glu	Thr	Lys	Ala	Thr	Gln	Lys	Leu	Xaa	Xaa	Xaa	Xaa	His	Thr	Leu
			165						170					175	
Xaa	His	Gly	Thr	Leu	Lys	Gly	Leu	Ser	Ser	Ser	Ser	Asn	Arg	Ile	Ala
		180						185					190		
Lys	Pro	Ser	His	Ala	Ser	Tyr	Ser	Leu	Asp	Asp	Val	Thr	Ala	Gln	Leu
		195					200					205			
Glu	Gln	Ala	Ser	Leu	Ser	Met	Asp	Glu	Ala	Ala	Gln	Gln	Ser	Val	Leu
		210				215					220				
Glu	Asp	Thr	Lys	Pro	Leu	Val	Thr	Asn	Gln	His	Arg	Arg	Thr	Ala	Val
225					230					235				240	
Ser	Arg	His	Ser	Glu											
				245											

<210> 5470

<211> 29

<212> PRT

<213> Homo sapiens

<400> 5470

Ala	Phe	Val	Asp	Cys	Glu	His	Pro	Ser	Tyr	Ile	Gly	Leu	Tyr	Arg	Met
1				5					10					15	

Ala	Leu	Ser	Lys	Asn	Tyr	Ser	Cys	Ile	Thr	Val	Val	Phe
			20					25				

4846

<210> 5471

<211> 81

<212> PRT

<213> Homo sapiens

<400> 5471

Ala Phe Pro Leu Pro Ser Pro Gly Leu Thr Pro His Pro Ile Pro Gln
1 5 10 15

Lys Val Arg Arg Ala Gly Cys Val Asp Gly Ile Pro Glu Asn Glu Pro
20 25 30

Val Glu Ser Ile Trp Pro Trp His Val Asn Ser Ser Leu Phe Pro Ala
35 40 45

Val Ile Thr Thr Leu Phe Phe Pro Gln Gly Leu Asn Cys Thr Val Lys
50 55 60

Asn Ser Lys Ser Ser Phe Ser Val Leu Leu Leu Val Ala Phe Leu Ile
65 70 75 80

Lys

<210> 5472

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5472

Ser Cys Ser Phe Gly Val Cys Glu Gln Thr Gln Asp Ile Ile Ile Lys
1 5 10 15

His His Pro Ser Ile Lys Gly Leu Phe Tyr Asn Met Cys Cys Glu Ile
20 25 30

Asn Leu Ser Gly Lys Val Trp Cys Asn Glu Leu Phe His Ser Met Val
35 40 45

Ile Asp Ala Val Lys
50

<210> 5473

<211> 105

<212> PRT

<213> Homo sapiens

4847

<400> 5473

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
 1 5 10 15

Val Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Cys Phe Phe Phe
 20 25 30

Phe Phe Phe Val Val His Asn His Leu Phe Tyr Leu Lys Thr Cys Leu
 35 40 45

His Cys Ile Glu His Gln His Arg Cys Asp Gln Glu Thr His Ser Pro
 50 55 60

Val Pro Ala Ala Leu Gly Pro Val Tyr Asp Leu Gly Trp Thr Val Ile
 65 70 75 80

Phe His Ser Glu Gly Gly Lys Asp Arg Lys Glu Lys Met Ala Ile Ile
 85 90 95

Pro Thr Pro Val Gln Glu Ser Glu Gln
 100 105

<210> 5474

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5474

Gly Phe Ile Ile His Cys Gln Met Leu Val Pro Ile Lys Gln Cys Cys

4848

1 5 10 15
 Leu Pro Thr Pro Thr Phe Cys Val Xaa Gly Lys Phe Trp Lys Ser Arg
 20 25 30
 Gly Xaa His Ala Lys Arg Leu Ser Thr Gly Leu Phe Leu Val Ser Ala
 35 40 45
 Leu Xaa Xaa Leu Cys Glu Glu Val Ala Ile Tyr Gly Phe Trp Pro Phe
 50 55 60
 Ser Val Asn Met His Glu Gln Pro Ile Ser His His Tyr Tyr Asp Asn
 65 70 75 80
 Val Leu Pro Phe Ser Gly Phe His Ala Met Pro Glu Glu Phe Leu Gln
 85 90 95
 Leu Trp Tyr Leu His Lys Ile Gly Ala Leu Arg Met Gln Leu Asp Pro
 100 105 110
 Cys Glu Asp Thr Ser Leu Gln Pro Thr Ser
 115 120

<210> 5475

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5475

Tyr Gln Ser Ile Ala Leu Tyr Phe Glu Gly Glu Lys Arg Tyr Leu Gln
 1 5 10 15
 Ala Gly Lys Phe Phe Leu Leu Cys Gly Gln Tyr Ser Arg Ala Leu Lys
 20 25 30
 His Phe Leu Lys Cys Pro Ser Ser Glu Asp Asn Val Ala Ile Glu Met
 35 40 45
 Ala Ile Glu Thr Val Gly Gln Ala Lys Asp Glu Leu Leu Thr Asn Gln

4849

50	55	60
Leu Ile Asp His Leu Leu Gly Glu Asn Asp Gly Met Pro Lys Asp Ala		
65	70	75 80
Lys Tyr Leu Phe Arg Leu Tyr Met Ala Leu Lys Gln Tyr Arg Glu Ala		
	85	90 95
Ala Gln Thr Ala Ile Ile Ile Ala Arg Glu Glu Gln Xaa Ala Gly Asn		
	100	105 110
Tyr Arg Asn Ala His Asp Val Leu Phe Ser Met Tyr Ala Glu Leu Lys		
	115	120 125
Ser Gln Lys Ile Lys Ile Pro Ser Glu Met Ala Thr Asn Leu Met Ile		
	130	135 140
Leu His Ser Tyr Ile Leu Val Lys Ile His Val Lys Asn Gly Asp His		
145	150	155 160
Met Lys Gly Ala Arg Met Leu Ile Arg Val Ala Asn Asn Ile Ser Lys		
	165	170 175
Phe Pro Ser His Ile Val Pro Ile Leu Thr Ser Thr Val Ile Glu Cys		
	180	185 190
His Arg Ala Gly Leu Lys Asn Ser Ala Phe Ser Phe Ala Ala Met Leu		
	195	200 205
Met Arg Pro Glu Tyr Arg Ser Lys Ile Asp Ala Lys Tyr Lys Lys Lys		
	210	215 220
Ile Glu Gly Met Val Gln Glu Thr Arg Tyr Ile Leu Xaa		
225	230	235

<210> 5476

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5476

Gly Gly Ala Gly Ala Arg Gly Gly Gly Ala Leu Trp Val Thr Glu Gly
1 5 10 15

4850

Val Lys Xaa Pro Gly Pro Val Ser Gly Gln Cys Arg Lys Ser Gln Pro
 20 25 30

His Ala Cys Gly Glu Ile Pro Cys Arg Ala Pro Pro Thr Met Asp Thr
 35 40 45

Ser Gly Pro Leu Arg Ser Ser Lys Ala Val Ser Ser Phe Pro Leu Gln
 50 55 60

Gln Arg Gly Val Pro Ser Ser Val Lys Gln Pro Phe Leu Phe Leu Glu
 65 70 75 80

Ser Tyr Lys Trp Arg Pro Lys Ser Val Pro Met Leu Arg Gln Gly Pro
 85 90 95

Gly Cys Ser Phe Leu Ser Gly Asn Arg Leu Glu Leu Phe Leu Trp Asp
 100 105 110

Met Pro Pro Arg Pro Ala Leu Lys Gly Cys Ser Ser Leu Thr Thr Trp
 115 120 125

Asn Gln Thr Pro Pro Ser Phe Val Tyr Lys Gly Asn Lys Glu
 130 135 140

<210> 5477

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5477

Gly Arg Lys Leu Pro Glu Glu Glu Gly Gly Lys Glu Ile Lys Asn Thr
 1 5 10 15

Leu Lys Val Cys Gln Lys Lys Glu Leu Tyr Phe Leu Lys His Ser Arg
 20 25 30

Lys Met Met Ser Phe Gln Leu Leu Ile
 35 40

<210> 5478

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5478

Lys Ser Ile Val Val Leu Val Leu Leu Ser Trp Ile Ile Val Gln Lys
 1 5 10 15

4851

Glu Val Gln Pro Pro Asp Asn His Ile Phe Thr Val Met Asn Gly Lys
 20 25 30

Thr Lys Cys Arg Ala Gln Leu Thr Gln Arg Lys Lys Gly Ser Lys Asp
 35 40 45

Lys Leu Trp His Asn Leu Ala Ala Lys Phe Leu Pro Ser Thr Asp Phe
 50 55 60

<210> 5479

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5479

Cys Ile Ile Leu Arg Gly Phe Phe Arg Ala Val Leu Thr Glu Leu Ser
 1 5 10 15

Ile Asn Leu His Ser Ser Gly Arg Leu Leu Lys Leu Ala Gly His Asn
 20 25 30

Glu Ile Gly Lys Ser Arg Val Leu Lys Ser Ile Ala Trp Pro Ser Ala
 35 40 45

<210> 5480

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5480

Lys Leu Leu Cys Pro His Leu Arg Glu Glu Gly Ser Ser Asn Asn Thr
 1 5 10 15

Thr Met Cys Lys Ala Gly Ser Glu Ile Leu Leu Ser Pro Leu Pro Ser
 20 25 30

Cys Asn Pro Ser Leu Pro His Leu Ser Cys Met Cys Ile Thr Met Leu
 35 40 45

Phe Cys Phe Leu Met Lys Met Arg Leu Cys Ile Leu Phe Asp Asn Leu

4852

50

55

60

Phe Gln Ile Lys

65

<210> 5481

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5481

Pro	Leu	Ser	Thr	Pro	His	Pro	Leu	Arg	Arg	Gly	Pro	Arg	Ser	Tyr	Pro
1				5					10					15	

Thr	Val	His	Leu	Pro	Arg	Gly	Cys	Ser	Glu	Leu	Ala	Met	Ala	Ala	Thr
			20					25					30		

Ala	Ala	Thr	Ala	Ala	Asp	Pro	Arg	Ser	Gly	Ser	Leu	Arg	Arg	Gly	Val
		35					40					45			

Ala	Ala	Leu	Pro	Arg	Pro	Pro	Arg	Gln	Pro	Glu	Gln	Leu	Gln	Ser	Thr
		50				55					60				

Gly	Leu	Gly	Ser	Glu	Thr	Phe	Lys	Val	Lys	Gln	Ala	Glu	Trp	Gly	Asp
65					70					75					80

Arg	Thr	Ile	Ser	Pro	Pro	Pro	Gly	Ala	Pro	Gly	Leu	Ser	Leu	Gly	Gly
				85					90					95	

Pro	Pro	Leu	Ala	Pro
				100

<210> 5482

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5482

Arg	Ile	His	Glu	Lys	Tyr	Glu	Ile	Trp	Phe	His	Pro	Val	Arg	His	Phe
1				5					10					15	

Asn	Arg	Glu	Asp	Gln	Asn	Val	Thr	Trp	Gln	Leu	Gly	Asn	Asn	Leu	Thr
			20					25					30		

Ser	Leu	Ala	Val	Gly	Leu	Asn	Phe	Leu	Ile	Ile	Asp	Pro	Gly	Ile	Phe
		35					40					45			

4853

Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro
 50 55 60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser
 65 70 75 80

Phe Lys Ala Pro Val Leu Ala
 85

<210> 5483

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5483

Thr Pro Ile Met Xaa Asp Glu Phe Val Met Arg Asp Asn Leu Glu Val
 1 5 10 15

Val Phe Thr His Tyr Ala Thr Ile Lys Gly Ser Thr Val Glu Arg Ile
 20 25 30

Leu Thr His Ser Val Thr Asn Gly Thr His Arg Gln His Glu Phe Ala
 35 40 45

Pro Tyr Met Thr Glu Val Ile Gln Gly Phe Leu
 50 55

<210> 5484

<211> 240

<212> PRT

<213> Homo sapiens

<400> 5484

Val Thr Thr Lys Phe Val Arg Thr Ser Thr Asn Lys Val Lys Cys Pro
 1 5 10 15

Val Phe Val Val Arg His Ser Met Glu Asn Leu Phe Glu Lys Asn Lys
 20 25 30

Ile Arg Ala Ser Ile Ser Tyr Lys Trp Thr Pro Glu Gly Arg Arg Leu
 35 40 45

4854

Val Thr Gly Ala Ser Ser Gly Glu Phe Thr Leu Trp Asn Gly Leu Thr
 50 55 60
 Phe Asn Phe Glu Thr Ile Leu Gln Ala His Asp Ser Pro Val Arg Ala
 65 70 75 80
 Met Thr Trp Ser His Asn Asp Met Trp Met Leu Thr Ala Asp His Gly
 85 90 95
 Gly Tyr Val Lys Tyr Trp Gln Ser Asn Met Asn Asn Val Lys Met Phe
 100 105 110
 Gln Ala His Lys Glu Ala Ile Arg Glu Ala Arg Phe Ile His Asn Ile
 115 120 125
 Pro Phe Ser Val Val Pro Ile Val Met Val Lys Leu Phe Ser Lys Cys
 130 135 140
 Ile Leu Gly Ala Glu Met His Gly Leu Cys Gln Phe Leu Gly Asn Phe
 145 150 155 160
 Leu His Pro Ile Asn Thr Ile Phe Phe Phe Val Phe Thr His Ser Pro
 165 170 175
 Phe Cys Trp His Leu Ser Glu Val Val Leu Ser Arg Tyr Gln Pro Leu
 180 185 190
 Gln Tyr Val Arg Asp Val Leu Ser Ala Ala Phe Cys Thr Gly Phe Leu
 195 200 205
 Phe Ser Phe Met Ile Asn Asn Val Tyr Thr Leu Phe Leu Phe Ile Ile
 210 215 220
 Tyr Cys Val Arg Gln Glu Tyr Phe Ile Pro Asn Lys Glu Phe Ser Leu
 225 230 235 240

<210> 5485

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5485

Asn Glu Ala Phe Ile Tyr Val Phe Arg Cys His Cys Ser Leu Ser Glu
 1 5 10 15

Leu Ala Val His Ile Ser Leu Pro Leu Val Leu Ser Thr Asp Phe Phe

4855

20 25 30
 Leu Lys Lys Arg Gly Thr Val Tyr His Ser Ser Thr Val Leu Leu
 35 40 45

 <210> 5486
 <211> 72
 <212> PRT
 <213> Homo sapiens

 <400> 5486
 Tyr Glu Ala Lys Thr Lys Ser Trp Lys Ser Glu Gln Val Gln Trp Phe
 1 5 10 15
 Gly Arg Gly Asn Glu Glu Gln Arg Arg Cys Gln Pro Leu Leu Gln Thr
 20 25 30
 Leu Trp Tyr His Trp Phe Gly Arg Lys Asn Asn His His Leu Arg Gly
 35 40 45
 Pro Val Gly Lys Pro Cys Pro His Gly Lys Ala Ile Phe Phe Arg Leu
 50 55 60
 His Phe Ser Trp Tyr Tyr Val Tyr
 65 70

 <210> 5487
 <211> 75
 <212> PRT
 <213> Homo sapiens

 <400> 5487
 Leu Thr Cys Tyr Val Thr Val Ile Tyr Leu Ser Ile Ser Asn Pro Lys
 1 5 10 15
 Ala Cys Gln Lys Ala Phe Phe Arg Glu Asn His Phe Thr Phe Val Val
 20 25 30
 Lys Leu Leu Ile Ala Thr Leu Lys Asn Ile His Val Cys Ile His Arg
 35 40 45
 Asn Ile Phe Ser Gln Tyr Leu Tyr Asp Ser Leu Thr Val Ile Val Leu
 50 55 60
 Ser Glu Leu Leu Cys Ala Ser Asp Lys Asn Lys
 65 70 75

4856

<210> 5488

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5488

Gly	Pro	Arg	Arg	Thr	Leu	Ala	Ala	Leu	Pro	Leu	Ser	Arg	Val	Ser	Ala
1				5					10					15	

Gly	Ser	Gly	Ser	Ala	Ser	Pro	Gly	Gln	Leu	Arg	Glu	Ser	Leu	Ala	Arg
			20					25					30		

Ile	Pro	Ala	Ser	Thr	Leu	Phe	Leu	Ala	Ala	Lys	Val	Thr	Val	Pro	Phe
			35				40					45			

Ala	Pro	Ala	Leu	Ser	Asp	Pro	Pro	Arg	Ile	Pro	Arg	His	Arg	Glu	Thr
			50			55					60				

Arg	Lys	Gly	Xaa	Gly	Ser	Gly	Gly	Gly	Pro	Gly	Arg	Ile	Ala	Leu	Gln
65					70					75					80

Ala	Ala	Leu	Arg	Gly	Pro	Ala	Pro	Ala	Thr	Ala	Leu	Thr	Ser	Glu	Arg
				85					90					95	

Arg	Asn	Trp	Gly	Glu	Xaa	Phe	Lys	Ser	Leu	Arg	Xaa	Arg	Cys
			100					105					110

<210> 5489

<211> 122

<212> PRT

<213> Homo sapiens

4857

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5489
 Ser Gly Arg Gly Ser Pro Gln Trp Thr Arg Leu Pro His Pro Ala Glu
 1 5 10 15
 Val Gly Gly Gly His Glu Glu Met Gly Cys Arg Leu Leu Ser Glu Leu
 20 25 30
 Pro Ser Thr Asn Gly Val Gly Val Xaa Asp Leu Pro Arg His Xaa Phe
 35 40 45
 Phe Thr Phe Gly Lys Met Glu Gly Asp Gly Gly Gly Ile Pro Cys Ser
 50 55 60
 Leu Cys Cys Ala Asp Thr Leu Glu Lys Xaa Leu Pro Ser Val Glu Gln
 65 70 75 80
 Asn Pro Leu Trp Arg Asn Ala Ala Val Leu Asp Leu Glu Ala Glu Gly
 85 90 95
 Val Ser Ile Leu Gly Ile Cys Leu Pro Leu Pro Ile Trp Met Pro His
 100 105 110
 Leu Ala Val Ser Leu Met Val Ile Leu Phe
 115 120

<210> 5490
 <211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

4858

<400> 5490

Arg Leu Phe Ser Leu Xaa Gly Glu Cys His Lys Leu Leu Phe Cys Ile
 1 5 10 15

Ser Thr Ala Cys Gln Ala Leu Ser Ala Ser Ser Asn Leu Ala Leu Thr
 20 25 30

Ala Thr Gly Ser Arg Cys Pro Ile Phe Gln Ser Lys Asp Arg Gly Val
 35 40 45

Lys Phe Lys Tyr Arg Phe Ser Asp Ile Asn Leu Cys Asp Asp Leu Ile
 50 55 60

Glu Ala Gly Phe Ser Ser Ile Thr Val Leu Val Pro Ser Leu Leu Tyr
 65 70 75 80

Gly Asn Glu Asn Lys Glu Thr Tyr Phe Leu Ala Cys Leu Lys Lys Lys
 85 90 95

Lys

<210> 5491

<211> 294

<212> PRT

<213> Homo sapiens

<400> 5491

Thr Tyr Thr Ile His Ala Asp Gly Thr Gly Ser Asn Met Asn Ile Asn
 1 5 10 15

Asp Gly Gly Arg Arg Arg Phe Glu Asp Asn Glu His Thr Leu Arg Ile
 20 25 30

Tyr Pro Gly Ala Ile Ser Glu Gly Thr Ile Tyr Cys Pro Ile Pro Ala
 35 40 45

Arg Lys Asn Ser Thr Ala Ala Glu Val Ile Glu Ser Leu Ile Asn Lys
 50 55 60

Leu His Leu Asp Lys Thr Lys Cys Tyr Val Leu Ala Glu Val Lys Glu
 65 70 75 80

Phe Gly Gly Glu Glu Trp Ile Leu Asn Pro Thr Asp Cys Pro Val Gln
 85 90 95

Arg Met Met Leu Trp Pro Arg Met Ala Leu Glu Asn Arg Leu Ser Gly
 100 105 110

4859

Glu Asp Tyr Arg Phe Leu Leu Arg Glu Lys Asn Leu Asp Gly Ser Ile
 115 120 125

His Tyr Gly Ser Leu Gln Ser Trp Leu Arg Val Thr Glu Glu Arg Arg
 130 135 140

Arg Met Met Glu Arg Gly Phe Leu Pro Gln Pro Gln Gln Lys Asp Phe
 145 150 155 160

Asp Asp Leu Cys Ser Leu Pro Asp Leu Asn Glu Lys Thr Leu Leu Glu
 165 170 175

Asn Leu Arg Asn Arg Phe Lys His Glu Lys Ile Tyr Thr Tyr Val Gly
 180 185 190

Ser Ile Leu Ile Val Ile Asn Pro Phe Lys Phe Leu Pro Ile Tyr Asn
 195 200 205

Pro Lys Tyr Val Lys Met Tyr Asp Asn His Gln Leu Gly Lys Leu Glu
 210 215 220

Pro His Ile Tyr Ala Val Ala Asp Val Ala Tyr His Ala Met Leu Gln
 225 230 235 240

Arg Lys Lys Asn Gln Cys Ile Val Ile Ser Gly Glu Ser Gly Ser Gly
 245 250 255

Lys Thr Gln Ser Thr Asn Phe Leu Ile His His Leu Thr Ala Leu Ser
 260 265 270

Gln Lys Gly Phe Ala Ser Gly Val Glu Gln Ile Ile Leu Gly Ala Gly
 275 280 285

Pro Val Leu Glu Ala Val
 290

<210> 5492

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5492

Pro Tyr Leu Arg Arg Arg Asp Thr Gln Asp Lys Leu Gln Val Val Ser
 1 5 10 15

Arg Phe Thr Phe Tyr Phe Glu Asp Pro Leu Leu Pro Gln Val Pro Asp
 20 25 30

4860

Leu Glu Asn Glu Pro Pro Leu Ser Gly Leu Ala Ser Pro Gln Pro Arg
35 40 45

His Arg Leu Ala Gln Gly Ser Ser Ser Trp Leu Ser Trp Asn Leu His
50 55 60

Phe Leu Thr Thr Arg Lys Arg Ser Pro Glu Leu Thr Lys Asn Asn Ile
65 70 75 80

Leu Leu Thr Trp Glu
85

<210> 5493

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4861

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5493

His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
1				5					10					15	

Gly	Ser	Thr	His	Ala	Ser	Gly	Pro	Thr	Ser	Pro	Pro	Ala	Arg	Met	Ala
			20					25					30		

Pro	Pro	Gly	Pro	Ala	Ser	Ala	Leu	Ser	Thr	Ser	Ala	Glu	Pro	Leu	Ser
		35					40					45			

Arg	Ser	Xaa	Phe	Arg	Lys	Phe	Leu	Leu	Met	Leu	Cys	Ser	Leu	Leu	Thr
	50					55					60				

Ser	Leu	Tyr	Val	Phe	Tyr	Cys	Leu	Ala	Glu	Arg	Cys	Gln	Thr	Leu	Ser
65					70					75					80

Gly	Pro	Val	Val	Gly	Leu	Ser	Gly	Gly	Gly	Glu	Glu	Ala	Gly	Ala	Pro
				85					90					95	

Gly	Gly	Gly	Val	Leu	Ala	Gly	Pro	Arg	Glu	Leu	Ala	Val	Trp	Pro	Ala
			100					105					110		

Ala	Ala	Gln	Arg	Lys	Arg	Leu	Leu	Gln	Leu	Pro	Gln	Trp	Arg	Xaa	Arg
		115					120					125			

Arg	Xaa	Pro	Ala	Pro	Arg	Xaa	Asp	Gly	Glu	Glu	Ala	Ala	Trp	Glu	Glu
	130					135					140				

Glu	Ser	Pro	Gly	Leu	Ser	Gly	Val	Arg	Ala	Ala	Pro	Gly	Pro	Glu	Ala
145					150					155					160

Pro	Trp	Pro	Arg	Pro	Arg	Arg	Gly	Pro	Trp	Arg	Cys	Ser	Trp	Thr	Lys
				165					170					175	

Ala	Ala	Ser	Ser	Cys	Arg	Ser	Ile	Ile	Ile	Gly	Xaa	Lys	Lys	Gly	Gly
			180					185					190		

Thr	Arg	Ala	Leu	Leu	Glu	Phe	Leu	Arg	Val	His	Pro	Asp	Val	Arg	Ala
		195					200					205			

Val	Gly	Ala	Glu	Pro	His	Phe	Phe	Asp	Arg	Ser	Tyr	Asp	Lys	Gly	Leu
	210					215					220				

4862

Ala Trp Tyr Arg Asp Leu Xaa Pro Arg Thr Leu Glu Gly Gln Ile Thr
 225 230 235 240

Met Glu Lys Lys Xaa Ser Tyr Ser Ser Ser Gly Lys Pro Pro Arg Ala
 245 250 255

Ser Trp Ala Cys Ser Lys Asp Asn Lys Leu Ile Arg Trp Leu Xaa Gly
 260 265 270

Asn Arg

<210> 5494

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5494

Gly Val Gly His Ser Glu Leu Thr Ser Met Phe Asn Thr Ile Thr Arg
 1 5 10 15

Asp Thr Glu Thr Ala Asn Gln Asp Lys Lys Leu Thr Thr Ser Arg Cys
 20 25 30

Arg Gln Leu Phe Pro Arg Cys Gln Asn Lys Thr Ser Tyr His Asp Glu
 35 40 45

Ala Pro Thr Pro Leu Asn Leu Pro Ser Ser Cys Leu Pro Leu Ser Leu
 50 55 60

Ala Gly
 65

<210> 5495

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5495

Leu Asp Arg Ile Phe Ser Gly Gly Ser Leu Val Asp Phe Glu Gly Lys
 1 5 10 15

Thr Phe Trp Val Tyr His Val Leu Ile Leu Glu Thr Gly Ser Asp Glu
 20 25 30

Ser Ser Pro Val Val Pro Leu Ser Asn Ser Ile Lys Val Gly Ile Ser
 35 40 45

4863

Lys Glu His Leu Ile Gln Gly Ala Gly Ala Asp Phe Ile Asp Ser Arg
 50 55 60
 Glu Thr Cys Phe Ser Ala Tyr Ser Ser Leu Pro Ser Gly Ala Ser Leu
 65 70 75 80
 Leu Thr Ile Thr Ala Ser Leu Arg Cys Arg Trp Val Phe Leu Lys Gln
 85 90 95
 Glu Thr Val Ser Pro Leu Leu Pro Gln Leu Leu Gly Val Gly Ile Ser
 100 105 110
 Asp Thr Gly Asp Gly
 115

<210> 5496

<211> 171

<212> PRT

<213> Homo sapiens

<400> 5496

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
 1 5 10 15
 Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
 20 25 30
 Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
 35 40 45
 Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
 50 55 60
 Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
 65 70 75 80
 Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
 85 90 95
 Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
 100 105 110
 Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
 115 120 125
 Pro Val Ile Phe Gly His Glu Leu Val Lys Ala Gly Leu Ala Leu Ala
 130 135 140

4864

Leu Phe Gly Gly Ser Gln Lys Tyr Ala Asp Asp Lys Asn Arg Ile Pro
145 150 155 160

Ile Arg Gly Asp Pro His Ile Leu Val Gly Phe
165 170

<210> 5497

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5497

Ser Val Lys Cys Arg Leu Ser Ser Phe Ile Met Asn Val Ile Val Arg
1 5 10 15

Asn Thr Leu Thr Phe Ser Asn Phe
20

<210> 5498

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5498

Gly Phe Ser Gln Arg Arg Val Cys Ser Gly Arg Cys Cys Gly Gln Gly
1 5 10 15

Ser Arg Gln Arg Pro Leu Ser Ser Arg Leu Ala Pro Ala Leu Arg Gly
20 25 30

His Gly Gly Ala Glu Ala Thr Arg Ala Gly Pro Glu Pro Gly Gly Pro
35 40 45

Trp Leu Arg Phe Ser Cys Thr Glu Lys Leu Asn Pro Ala Arg Ser Asp
50 55 60

Val His Phe Met Val Pro Thr Pro Leu Gly
65 70

<210> 5499

<211> 153

<212> PRT

<213> Homo sapiens

<220>

4865

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5499

Thr	Cys	Tyr	Ala	Thr	Pro	Cys	Leu	Val	Trp	Met	Gly	Arg	Trp	Pro	Pro
1				5				10					15		

Ala	Val	Thr	Leu	Thr	Cys	Arg	Pro	Thr	Ala	Thr	Val	Pro	Trp	Ser	Pro
		20					25					30			

Gly	Thr	Thr	Ser	Ala	Glu	Thr	Thr	Ala	Leu	Ala	Arg	Ser	Leu	Cys	Ser
	35					40					45				

Ala	Gly	Thr	Gln	Pro	Ala	Pro	Ser	Thr	Thr	Ser	Leu	Pro	Ser	Trp	Arg
50					55					60					

Ser	Ala	Ala	Pro	Leu	Ala	Trp	Pro	Leu	Gln	Leu	Ser	Gly	Gln	Trp	Trp
65				70					75					80	

Ser	Ala	Gly	Ala	Cys	Phe	Leu	Asp	Leu	Pro	Ser	Leu	Ala	Leu	Cys	Trp
				85				90						95	

Pro	Gly	Asp	Ser	Gly	Asp	Ala	Ser	Gly	Gln	Lys	Pro	Gly	Ala	Glu	Gln
	100						105					110			

Thr	Leu	Gly	Cys	Ser	Gly	Trp	Ala	Gln	Ala	Xaa	Phe	Arg	Leu	Ala	Ala
	115					120					125				

Thr	Val	Arg	Xaa	Pro	Xaa	Arg	Pro	Gln	Ala	Pro	Ser	Xaa	Arg	Ala	Phe
	130				135						140				

Leu	Pro	Leu	His	Phe	Pro	Thr	Ile	Glu
145					150			

4866

<210> 5500

<211> 142

<212> PRT

<213> Homo sapiens

<400> 5500

Trp Thr Trp Ser Thr Pro Ala Ser Ala Arg Ser Ser Gly Thr Thr Thr
 1 5 10 15

Trp Pro Pro Ala Pro Ala Ala Ala Leu His Leu Arg Leu Arg Gly Val
 20 25 30

Gln Arg Arg Arg Ile Leu Thr Met Glu Pro Val Leu Gly Gly Thr Pro
 35 40 45

Tyr Leu Asp Lys Phe Val Val Ser Ser Ser Arg Gln Gly Gln Gly Ser
 50 55 60

Gly Gln Met Leu Trp Glu Cys Leu Arg Arg Asp Leu Gln Thr Leu Phe
 65 70 75 80

Trp Arg Ser Arg Val Thr Asn Pro Ile Asn Pro Trp Tyr Phe Lys His
 85 90 95

Ser Asp Gly Ser Phe Ser Asn Lys Gln Trp Ile Phe Phe Trp Phe Gly
 100 105 110

Leu Ala Asp Ile Arg Asp Ser Tyr Glu Leu Val Asn His Ala Lys Gly
 115 120 125

Leu Pro Asp Ser Phe His Lys Pro Ala Ser Asp Pro Gly Ser
 130 135 140

<210> 5501

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

4867

<400> 5501

Gln Arg Glu Asn Arg Pro Cys Leu Lys Glu Arg Phe Leu Val Tyr Ala
 1 5 10 15
 Ser Gly Leu Trp Ala Gly Xaa Ala Thr Ile Pro Tyr Xaa Arg Gln Ser
 20 25 30
 Ser Ala Pro Ala Ala Lys Leu Ala Cys Phe Thr Gly Lys Leu Leu Glu
 35 40 45
 Glu Trp Leu Leu Met Arg Phe Gln Asn Glu Val Leu Ala Asn Thr Ala
 50 55 60
 His Gly His Pro Gly Phe Ser Gln Trp Leu Pro Phe Leu Leu Ala Ser
 65 70 75 80
 Leu Asn Arg Gly Glu Ser Leu Thr Ser Leu Leu Leu Ser Lys Pro Phe
 85 90 95
 Thr Leu Asn Gly
 100

<210> 5502

<211> 165

<212> PRT

<213> Homo sapiens

<400> 5502

Lys Trp Asp Glu Pro Trp Tyr Asn Gln Lys Thr Glu His Gln Arg Asn
 1 5 10 15
 Ser Ser Lys Ile Leu Arg Phe Ile Ser Asp Phe Leu Ala Phe Leu Val
 20 25 30
 Leu Tyr Asn Phe Ile Ile Pro Ile Ser Leu Tyr Val Thr Val Glu Met
 35 40 45
 Gln Lys Phe Leu Gly Ser Phe Phe Ile Gly Trp Asp Leu Asp Leu Tyr
 50 55 60
 His Glu Glu Ser Asp Gln Lys Ala Gln Val Asn Thr Ser Asp Leu Asn
 65 70 75 80
 Glu Glu Leu Gly Gln Val Glu Tyr Val Phe Thr Asp Lys Thr Gly Thr
 85 90 95
 Leu Thr Glu Asn Glu Met Gln Phe Arg Glu Cys Ser Ile Asn Gly Met
 100 105 110

4868

Lys Tyr Gln Glu Ile Asn Gly Arg Leu Val Pro Glu Asp Gln His Gln
 115 120 125
 Thr Leu Gln Lys Glu Thr Tyr Leu Ile Leu Val Val Tyr Pro Ile Leu
 130 135 140
 Thr Thr Tyr Pro Ile Leu Gln Pro Val Pro Leu Ser Glu Pro Val Leu
 145 150 155 160
 Lys Met Lys Leu Asn
 165

<210> 5503
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 5503
 Arg Leu Pro Ser Glu Val Ser Asp His Ser Leu Leu Leu Lys Gln Leu
 1 5 10 15
 Leu Leu Phe Leu Tyr Ser Ile Glu His Pro Gly Ile Asp Ile Ile Leu
 20 25 30
 Ser Ile Ser Ile Ser Pro Leu Leu Val Tyr Leu Ile Ile Asn Pro Val
 35 40 45
 Ser Arg Ala Val Phe Ile
 50

<210> 5504
 <211> 220
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

4869

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5504

His	Glu	Gly	Lys	Cys	Phe	Cys	Arg	Lys	Ser	Thr	Leu	Thr	Thr	His	Leu
1				5					10					15	
Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys
			20					25					30		
Phe	Phe	Ser	Arg	Leu	Ser	Tyr	Leu	Thr	Val	His	Tyr	Arg	Thr	His	Ser
		35					40					45			
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Asn	Xaa	Cys	Gly	Lys	Thr	Phe	Tyr	Leu
	50					55					60				
Asn	Ser	Ala	Leu	Met	Arg	His	Gln	Arg	Val	His	Thr	Gly	Glu	Lys	Pro
65					70					75					80
Tyr	Glu	Cys	Asn	Glu	Cys	Gly	Lys	Leu	Phe	Ser	Gln	Leu	Ser	Tyr	Leu
			85						90					95	
Thr	Ile	His	His	Arg	Thr	His	Ser	Gly	Val	Lys	Pro	Tyr	Glu	Cys	Ser
			100					105					110		
Glu	Cys	Gly	Lys	Thr	Phe	Tyr	Gln	Asn	Ser	Ala	Leu	Cys	Arg	His	Arg
		115					120					125			
Arg	Ile	His	Lys	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Tyr	Ile	Cys	Gly	Lys
	130					135					140				
Phe	Phe	Ser	Gln	Met	Ser	Tyr	Leu	Thr	Ile	His	His	Arg	Ile	His	Ser
145					150					155					160
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ser	Glu	Cys	Gly	Lys	Thr	Phe	Xaa	Gln
			165					170						175	
Asn	Xaa	Ala	Leu	Asn	Arg	His	Gln	Arg	Thr	His	Thr	Gly	Glu	Lys	Ala
		180						185					190		
Tyr	Glu	Cys	Tyr	Glu	Cys	Gly	Lys	Cys	Phe	Ser	Gln	Met	Ser	Tyr	Leu
		195					200					205			
Thr	Ile	His	His	Arg	Ile	His	Ser	Gly	Glu	Asn	Leu				
	210					215					220				

<210> 5505

<211> 111

<212> PRT

4870

<213> Homo sapiens

<400> 5505

Lys Arg Glu Phe Ala Gly Glu Lys Arg Leu Asp Leu Val Glu Asp Cys
 1 5 10 15

Leu Gly Trp Gly Ser Thr Thr Trp Arg Phe Gln Ile His Leu Ala Cys
 20 25 30

Lys Gln Gln Ser Tyr Pro Tyr Leu Pro His Val Asn Val Ile Ala Arg
 35 40 45

Val Thr Leu Asp Lys Leu Gln Thr Asp Gly Pro Ser Ser Ser Pro Gly
 50 55 60

Ala Pro Trp Met Ala Ala Leu Leu Gln Ser Val Ser Cys Phe Trp Asn
 65 70 75 80

Ser Leu Leu Gly Asn Phe Lys Glu Glu Lys Lys Asn Leu Asn Cys Val
 85 90 95

Glu Leu Leu Tyr Leu Leu Leu Phe Phe Phe Glu Lys Ile Asn Leu
 100 105 110

<210> 5506

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5506

Thr Lys Ser Ser Ala Leu Gly Pro Arg Ala Pro Ser Leu Arg Arg His
 1 5 10 15

Val Leu Ile His Asn Thr Leu Gln Gln Leu Gln Ala Ala Leu Arg Leu
 20 25 30

Ala Pro Ala Pro Ala Leu Pro Pro Glu Pro Leu Phe Leu Gly Glu Glu
 35 40 45

4871

Asp Phe Ser Leu Ser Ala Xaa Ile Gly Ser Ile Leu Arg Glu Leu Asp
 50 55 60
 Thr Ser Met Asp Gly Thr Glu Pro Pro Gln Asn Pro Val Thr Pro Leu
 65 70 75 80
 Gly Leu Gln Asn Glu Val Pro Pro Gln Pro Asp Pro Val Phe Leu Glu
 85 90 95
 Ala Leu Ser Ser Arg Tyr Leu Gly Asp Ser Gly Leu Asp Asp Phe Phe
 100 105 110
 Leu Asp Ile Asp Thr Ser Ala Val Glu Lys Glu Pro Ala Arg Ala Pro
 115 120 125
 Pro Glu Pro Xaa His Asn Leu Phe Cys Ala Pro Gly Ser Trp Glu Trp
 130 135 140
 Asn Glu Leu Asp His Ile Met Glu Ile Ile Leu Gly Ser
 145 150 155

<210> 5507

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5507

Lys Met Met Arg Val His Gln Asp Ser Thr Xaa Glu Lys Leu Pro Phe
 1 5 10 15

4872

Phe Pro Leu Xaa Ala Asp Trp Lys Ala Ser Arg Ala Xaa Leu Cys Ala
 20 25 30

Leu Phe Arg Xaa Thr His Lys Asp Leu Gly Lys Cys Lys
 35 40 45

<210> 5508

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5508

Asn Phe Ile Phe Ile Leu Lys Leu His Leu Leu Lys Ser Leu Lys Ile
 1 5 10 15

Ile Ser Val His Val Leu Asn Thr Ser Leu Tyr Ser Val Ile Asn Thr
 20 25 30

Pro Asp Phe Phe Pro Leu Thr Leu Cys His Pro Ser Val Cys Leu Val
 35 40 45

Ser Ser Met Pro Cys Gly Arg Gly Val Ser Leu Ser Ser Ala Gln Glu
 50 55 60

Gly Asn Phe Lys His Ile Cys Thr Ile Lys Phe Gln Ile Lys His Phe
 65 70 75 80

Lys Lys Gly Ala Gln Thr Arg Asn Thr Cys Ser Ser Glu Ile Pro Cys
 85 90 95

Cys Asn Cys Asn Ser Cys His Ile Tyr Pro Val Tyr Glu Glu Lys Phe
 100 105 110

Leu Gln Phe Ser His Cys Pro Ser Val Leu Leu Pro Gly Cys Ala Leu
 115 120 125

Leu Leu Glu Leu Lys Tyr Glu Ile Phe Thr Leu Lys Tyr Val Asn Val
 130 135 140

Lys Val Asp Arg Ile Lys Phe Xaa Asn Pro Leu Arg Phe Ile
 145 150 155

4873

<210> 5509

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5509

Ile	Thr	Gly	Met	Ser	His	Cys	Ala	Arg	Pro	Ser	Phe	Leu	Phe	Asn	Lys
1				5					10					15	

Cys	Met	Tyr	Leu	Lys	Ala	Ile	Ala	Phe	Ser	Arg	Asn	Leu	Phe	Leu	Cys
			20					25					30		

Ser	Gly	Arg	Ala	Tyr	Lys	Leu	Cys	Leu	Gln	Leu	Phe	Phe	Phe	Ser	Lys
			35				40					45			

Gly	Asn	Thr	Ser	Gly	Arg
					50

<210> 5510

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5510

Ser	Thr	Arg	Gln	Pro	Asn	Pro	Phe	Gly	Ala	Thr	Ile	Asp	Cys	Tyr	Lys
1				5					10					15	

Ala	His	Pro	Trp	Val	Lys	Ile	Tyr	Tyr	Leu	Gln	Leu	Tyr	Leu	Met	Thr
			20					25					30		

Leu	Ile	Leu	Pro	Ser	Ser	Tyr	Ile	Lys	Phe	Gly	Xaa	Val	Phe	Tyr	Xaa
			35				40					45			

Ile	Ile	Phe
		50

4874

<210> 5511

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5511

Gln	Pro	Arg	Arg	Pro	Pro	Arg	Cys	Pro	Leu	Pro	Arg	Gly	Pro	Trp	Gly
1				5					10					15	

Arg	Pro	Arg	Ala	Thr	Gly	Pro	Gln	Leu	Gly	Cys	Ile	Ser	Ser	Thr	Ser
			20					25					30		

Cys	Pro	Ala	Pro	Thr	Ser	Ser	Ser	Ala	Arg	Cys	Pro	Ala	Phe	Ser	Arg
		35					40					45			

Pro	Arg	Ala	Gly	Ile	Pro	Ala	Gly	Leu	Val	Ala	Gly	Gly	Gly	Leu	Gly
	50					55					60				

Gly	Pro	Gly	Leu	Gly	Pro	Glu	Pro	His	Phe	His	Arg	Cys	Leu	Pro	His
65					70					75				80	

Pro	Leu	Leu	Leu	Leu	Pro	Ala	Pro	Arg	Ala	Pro	Arg	Val	Gln	Asp	Pro
				85					90					95	

Leu	Ala	Arg	Gly	Arg	Leu	Arg	His	Leu	Glu	Leu	Ile	Val	Pro	Xaa	Ser
			100					105						110	

Xaa	Ala	Ala	Leu	Ala	Leu	Ala	Ser
	115						120

<210> 5512

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

4875

<400> 5512

[illegible]

<210> 5513

<211> 98

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5513

[illegible]

4876

<210> 5514

<211> 61

<212> PRT

<213> Homo sapiens

<400> 5514

Gly Lys Lys Arg Lys Lys Leu Tyr Phe Phe Ser Ile Tyr Leu Leu Gln
 1 5 10 15

Arg Thr Leu Cys Phe Leu Ser Cys Lys Thr Ser Tyr Phe Ser Tyr Tyr
 20 25 30

Cys Thr Leu Glu Lys Ser Cys Arg Phe Met Leu Asn Ser Tyr Leu Arg
 35 40 45

Thr Ile Val Ile Ser Ser Lys Arg His Glu Leu Ser Ser
 50 55 60

<210> 5515

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5515

Phe Lys Ala Leu Asn Ser Lys Ser Ile Lys Thr Tyr Leu Gly Glu Thr
 1 5 10 15

Gly Ile Met Gln Phe Ile Thr Cys Ile His Ser Ser Ile Gln Lys Tyr
 20 25 30

Gly Xaa Ile Trp Tyr Leu Lys Leu Lys Cys Gly Ser Lys Ala Thr Lys
 35 40 45

Ser Glu Thr Trp Xaa
 50

4877

<210> 5516

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5516

Phe Ala Asn Leu Lys Ile Gly Thr Pro Leu Gly Met Pro Asp Arg Arg
1 5 10 15

Val Leu His Ile Cys Arg Gly Arg Gln Glu Leu Asn Ile Thr Thr Ser
20 25 30

Phe

<210> 5517

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5517

Ala Thr Glu Pro Ser Leu Leu Xaa Ser Phe Xaa His Asn Phe Cys Phe
1 5 10 15

4878

Ile His Asn Phe Ser Ser Ile Glu Ser Arg Ile Lys Thr Trp Val Leu
 20 25 30

Ser Leu Xaa Leu Ser Val Glu Ala Tyr Glu Cys Leu Leu Lys Ile Met
 35 40 45

Phe Leu Asn Ala Leu Asn Ile Xaa Asp Tyr Lys Gly Ile Leu Leu Phe
 50 55 60

Glu Ile Arg Xaa
 65

<210> 5518

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5518

Thr Asn Arg Pro Leu Ser Phe Pro Gln Phe Ile Thr Phe Ser Leu Phe
 1 5 10 15

Thr Leu Cys Pro Met Thr Phe Leu His His Trp Leu Leu Phe Ile Lys
 20 25 30

Pro Thr Ile Lys Asn Ile Gln Val Gln Leu Phe Leu Trp Ala Phe Ile
 35 40 45

Ser Leu Trp Xaa Pro Ser Cys Arg Val Lys Leu Ile Leu Asn Lys Cys
 50 55 60

Ala Cys Phe Ser Leu Ala Asn Leu Ser Phe Val Ile Glu Ile Ser Ala
 65 70 75 80

Leu Asn Leu Gly Trp Ile Glu Gly Asn Ile Cys Ser Pro Leu His
 85 90 95

<210> 5519

<211> 41

<212> PRT

<213> Homo sapiens

4879

<400> 5519

Asp Gly Ile Val His Phe Leu Val Leu Ser Gln Val Gln Pro Val Cys
 1 5 10 15

Gly Asn Leu Ser Leu Pro Thr Ser Phe Val Ala Leu Val Cys Ser Gly
 20 25 30

Gln Lys Val Arg Ala Pro Leu Leu Thr
 35 40

<210> 5520

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5520

Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
 1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
 20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
 35 40 45

Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa
 50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
 65 70 75 80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
 85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
 100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
 115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
 130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr

4880

145 150 155

<210> 5521

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5521

Ile Lys Val Asp Gly Lys Ala Ile Ser Ile Arg Ile Glu Thr Glu Ser
1 5 10 15

Tyr Asn Thr Val Cys Thr Thr Leu Arg Trp Ile His Ser Ala His Ala
 20 25 30

Leu Asn Val Tyr Ile Val Leu Ser Val Gly Ser Gly Thr Phe Ser Leu
 35 40 45

Val Phe Leu Lys Asn Tyr Lys Ser Glu Glu Lys Ala Ser Ile Ile Asn
 50 55 60

Lys Thr Asn Asn Cys Phe Thr Ala Leu Arg Asn Asn Asn Tyr Asn Val
65 70 75 80

Tyr Tyr Leu Lys Met Gly Glu Ile Val Cys Ser Met Lys
 85 90

<210> 5522

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5522

Ile Ser His Ala Ile Ile Trp Val Cys Cys Ile Lys Ser Ser Thr Thr
1 5 10 15

Leu Trp Phe Ser His Cys Ile Ile Lys His Glu Ala Ser Arg Ile Lys
 20 25 30

Ser Tyr Cys Phe Thr Cys Leu Leu Ser Pro Leu Cys His Phe Thr Phe
 35 40 45

<210> 5523

4881

<211> 169

<212> PRT

<213> Homo sapiens

<400> 5523

His Glu Glu Lys Thr Thr Tyr Asp Ser Ala Glu Glu Glu Asn Lys Glu
 1 5 10 15

Asn Leu Tyr Ala Gly Lys Asn Thr Lys Ile Lys Arg Ile Tyr Lys Thr
 20 25 30

Val Ala Asp Ser Asp Glu Ser Tyr Met Glu Lys Ser Leu Tyr Gln Glu
 35 40 45

Asn Leu Glu Ala Gln Val Lys Pro Cys Leu Glu Leu Ser Leu Gln Ser
 50 55 60

Gly Asn Ser Thr Asp Phe Thr Thr Asp Arg Lys Ser Ser Lys Lys His
 65 70 75 80

Ile His Asp Lys Glu Gly Thr Ala Gly Lys Ala Lys Val Lys Ser Lys
 85 90 95

Arg Arg Leu Glu Lys Glu Glu Arg Lys Met Glu Lys Ile Arg Gln Leu
 100 105 110

Lys Lys Lys Glu Thr Lys Asn Gln Glu Asp Asp Val Glu Gln Pro Phe
 115 120 125

Asn Asp Ser Gly Cys Leu Leu Val Asp Lys Asp Leu Phe Glu Thr Gly
 130 135 140

Leu Glu Asp Glu Asn Asn Ser Pro Leu Glu Asp Glu Glu Ser Leu Glu
 145 150 155 160

Ser Ile Arg Ala Ala Val Lys Asn Lys
 165

<210> 5524

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5524

Gly Gly Thr Gly Ser Glu Cys Arg Ala Gln Gly Glu Ile Gly Ser Pro
 1 5 10 15

Cys Arg Thr Cys Ser Ser Pro Ala Pro Lys Gly Asp Gly Val Trp Ala
 20 25 30

4882

Trp Gly Phe Leu His Val Pro Pro Tyr Pro Asp Pro Ser Ser Gln Ser
 35 40 45

Val Thr Leu Leu Trp Ala Gln Pro Pro Asn Arg Ser His Leu Gly Leu
 50 55 60

Gly Gln Thr
 65

<210> 5525

<211> 172

<212> PRT

<213> Homo sapiens

<400> 5525

Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Asp Ser Ser Lys
 1 5 10 15

Pro Ile Val Arg Glu Ser Trp Met Thr Glu Leu Pro Pro Glu Met Lys
 20 25 30

Asp Phe Gly Leu Gly Pro Arg Thr Phe Lys Arg Arg Ala Asp Asp Thr
 35 40 45

Ser Gly Asp Arg Ser Ile Trp Thr Asp Thr Pro Ala Asp Arg Glu Arg
 50 55 60

Lys Ala Lys Glu Thr Gln Glu Ala Arg Lys Ser Ser Ser Lys Lys Asp
 65 70 75 80

Glu Glu His Ile Leu Ser Gly Arg Asp Lys Arg Leu Ala Glu Gln Val
 85 90 95

Ser Ser Tyr Asn Glu Ser Lys Arg Ser Glu Ser Leu Met Asp Ile His
 100 105 110

His Lys Lys Leu Lys Ser Lys Ala Ala Glu Asp Lys Asn Lys Pro Gln
 115 120 125

Glu Arg Ile Pro Phe Asp Arg Asp Lys Asp Leu Lys Val Asn Arg Phe
 130 135 140

Asp Glu Ala Gln Lys Lys Ala Leu Ile Lys Lys Ser Arg Glu Leu Asn
 145 150 155 160

Thr Arg Phe Ser His Gly Lys Gly Asn Met Phe Leu
 165 170

4883

<210> 5526

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5526

Ala	Phe	Ser	Arg	Lys	Ser	His	Leu	Ile	Pro	His	Gln	Arg	Thr	His	Thr
1				5					10					15	

Gly	Glu	Lys	Pro	Tyr	Gly	Cys	Ser	Glu	Cys	Arg	Lys	Ala	Phe	Ser	Gln
			20					25					30		

Lys	Ser	Gln	Leu	Val	Asn	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro
		35					40					45			

Tyr	Arg	Cys	Ile	Xaa	Cys	Gly	Lys	Ala	Phe	Ser	Gln	Lys	Ser	Gln	Leu
	50					55					60				

Ile	Asn	His	Gln	Arg	Thr	His	Thr	Val	Lys	Lys	Ser
65					70					75	

<210> 5527

<211> 398

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (382)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (395)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5527

Cys	Val	Asn	Pro	Glu	Leu	Ile	Ile	Trp	Val	Asn	Arg	Phe	Val	Met	Cys
1				5					10					15	

Phe	Phe	Val	Glu	Leu	Lys	Lys	Ala	Ser	Lys	Arg	Met	Thr	Cys	His	Lys
			20					25					30		

4884

Arg Tyr Lys Ile Gln Lys Lys Val Arg Glu His His Arg Lys Leu Arg
 35 40 45
 Lys Glu Ala Lys Lys Arg Gly His Lys Lys Pro Arg Lys Asp Pro Gly
 50 55 60
 Val Pro Asn Ser Ala Pro Phe Lys Glu Ala Leu Leu Arg Glu Ala Glu
 65 70 75 80
 Leu Arg Lys Gln Arg Leu Glu Glu Leu Lys Gln Gln Gln Lys Leu Asp
 85 90 95
 Arg Gln Lys Glu Leu Glu Lys Lys Arg Lys Leu Glu Thr Asn Pro Asp
 100 105 110
 Ile Lys Pro Ser Asn Val Glu Pro Met Glu Lys Glu Phe Gly Leu Cys
 115 120 125
 Lys Thr Glu Asn Lys Ala Lys Ser Gly Lys Gln Asn Ser Lys Lys Leu
 130 135 140
 Tyr Cys Gln Glu Leu Lys Lys Val Ile Glu Ala Ser Asp Val Val Leu
 145 150 155 160
 Glu Val Leu Asp Ala Arg Asp Pro Leu Gly Cys Arg Cys Pro Gln Val
 165 170 175
 Glu Glu Ala Ile Val Gln Ser Gly Gln Lys Lys Leu Val Leu Ile Leu
 180 185 190
 Asn Lys Ser Asp Leu Val Pro Lys Glu Asn Leu Glu Ser Trp Leu Asn
 195 200 205
 Tyr Leu Lys Lys Glu Leu Pro Thr Val Val Phe Arg Ala Ser Thr Lys
 210 215 220
 Pro Lys Asp Lys Gly Lys Ile Thr Lys Arg Val Lys Ala Lys Lys Asn
 225 230 235 240
 Ala Ala Pro Phe Arg Ser Glu Val Cys Phe Gly Lys Glu Gly Leu Trp
 245 250 255
 Lys Leu Leu Gly Gly Phe Gln Glu Thr Cys Ser Lys Ala Ile Arg Val
 260 265 270
 Gly Val Ile Gly Phe Pro Asn Val Gly Lys Ser Ser Ile Ile Asn Ser
 275 280 285
 Leu Lys Gln Glu Gln Met Cys Asn Val Gly Val Ser Met Gly Leu Thr
 290 295 300

4885

Arg Ser Met Gln Val Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp
 305 310 315 320

Ser Pro Ser Phe Ile Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala
 325 330 335

Leu Arg Ser Pro Ala Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala
 340 345 350

Ser Ala Ile Leu Ser Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr
 355 360 365

Thr Val Pro Gly Tyr Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys
 370 375 380

Ser Glu Lys Arg Tyr Ala Pro Lys Arg Trp Xaa Pro Lys Cys
 385 390 395

<210> 5528

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5528

Gln Ser Gly Arg Gly Gly Asp Arg Gly Arg Ser Lys Val Asp Thr Ser
 1 5 10 15

Ala Lys Pro Phe Ala Val Ile Ser Asp Cys Ala Val Ser Cys Pro Val
 20 25 30

His Gln Ser Pro Leu Val Phe Asp Val Gly Gln Cys Arg Gln His Asp
 35 40 45

4886

Leu Ala Gly Gln Xaa Leu Ile Tyr His Ser Xaa Asp Thr Ser Trp Ser
 50 55 60

Leu Gly Ser Xaa His Pro Met Phe Pro Leu Phe Pro His Leu
 65 70 75

<210> 5529

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5529

Glu Pro Ala Trp Gly Asp Cys Gln Val Ala Lys Gly Lys Glu Arg Val
 1 5 10 15

Ala Asn Cys Leu Leu His Leu Ala Ala Gln Pro Gly Leu Pro Ala Phe
 20 25 30

Lys Gly His Phe Phe Gly Gln Glu Leu Thr Arg Met Ser Pro Glu Ser
 35 40 45

Ser Thr Pro Arg Val Cys Gly Asn His Pro Leu Leu Asn Thr Glu Ser
 50 55 60

Cys Arg Ile Ile Val Gly Lys Glu Ala Thr Ser Ser Glu Ala Val Val
 65 70 75 80

<210> 5530

<211> 155

<212> PRT

<213> Homo sapiens

<400> 5530

Ala Val Thr Ser Leu Lys Ala Pro Val Ile Thr Leu Arg Ser Ser Ser
 1 5 10 15

Ser Asn Cys His Pro Thr Ser Leu Ala Ser Cys Arg Lys Val Asn Leu
 20 25 30

Asp Asn Thr Trp Leu Ser Phe Leu Thr Asn Ala Gly Ser Gly Arg Asn
 35 40 45

Ser Leu Val Leu Lys Ser Lys Asn Thr Asn Cys Leu Arg Phe Ser Asn
 50 55 60

4887

Thr Pro Met Lys Ala Ser His Pro Ser Leu Leu Thr Arg Phe Pro Ala
 65 70 75 80
 Lys Phe Asn Cys Trp Lys Phe Phe Arg Gly Phe Phe Pro Lys Asn Ala
 85 90 95
 Pro Lys Ile Leu Ile Ser Val Ser Val Ser Leu Gln Phe Phe Asn Pro
 100 105 110
 Ser Leu Thr Ser Cys Gly Thr Ser Ser Lys Cys Phe Asn Lys Leu Leu
 115 120 125
 Arg Leu Pro Cys Thr Ser Gln Pro Gln Gly Ser Ile Ser Ala Val Ser
 130 135 140
 Cys Ser Ser Thr Phe Ile Leu Ser Ile Ser Ser
 145 150 155

<210> 5531

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5531

Ile Ile Val Ile Ile Gly Val Ser His His Ala Arg Pro Val Ser Ala
 1 5 10 15
 Phe Ile Lys Ile Val His Ser Phe Ile His Ser Cys Ser Leu Lys Met
 20 25 30
 Leu Phe Arg Lys Glu Phe Asp Lys Ile Asn Ile Ile Gln Asn Ser Lys
 35 40 45
 Lys Lys Glu Xaa Ser Phe Cys Phe Ser His Lys Leu Gly Leu Leu
 50 55 60

<210> 5532

<211> 145

<212> PRT

<213> Homo sapiens

4888

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5532

Lys Gln Pro Pro Leu Gln Ser His Pro Pro Ser Gly Cys Gly Arg Pro
 1 5 10 15

Gly Trp Pro Ala Glu Ala Pro Arg Pro Gly Leu His Pro Ser Ala Gln
 20 25 30

Thr Thr Ala Gly Arg Ala Gly Val Gln Val Gly Gln Leu Pro Pro Phe
 35 40 45

His Pro Ser Pro Pro Leu Leu Arg Pro His Gln Glu Gln Asp Pro Cys
 50 55 60

Ala Ser Val Val Leu Pro Cys Leu Gln Ala Ala Cys Gly Pro Ala Val
 65 70 75 80

Thr Gln Pro Gly Asp Thr Thr Ser Pro Gly Gly Leu Cys Ala Xaa Arg
 85 90 95

His Leu Arg Xaa Trp Lys Pro Ser Cys Gly Arg Arg Leu Gly Glu Gly
 100 105 110

Arg Arg Glu Gly Gly His Ala Ala Ser Val Ala Ser Thr Thr Leu Thr
 115 120 125

Val Pro Trp Arg Trp Leu Ser Pro Asp Arg Gly Gln Thr His Arg Ala
 130 135 140

Arg

145

<210> 5533

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5533

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
 1 5 10 15

4889

His Ala Ser Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser
 20 25 30
 Phe Arg Arg Asp Asn Asn Glu Leu Leu Leu Phe Ile Leu Lys Gln Leu
 35 40 45
 Val Ala Glu Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln
 50 55 60
 Asp Thr Ile Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln
 65 70 75 80
 Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg
 85 90 95
 Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln
 100 105 110
 Phe

<210> 5534

<211> 180

<212> PRT

<213> Homo sapiens

<400> 5534

Phe Ser Gln His Ser Arg Leu Ala Val His Arg Arg Ile His Thr Gly
 1 5 10 15
 Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Asp Arg
 20 25 30
 Ser Ala Phe Ala Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr
 35 40 45
 Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Gln Cys Ser Arg Leu Thr
 50 55 60
 Val His Leu Arg Ile His Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu
 65 70 75 80
 Cys Gly Lys Val Tyr Ser Gln Tyr Ser His Leu Val Gly His Arg Arg
 85 90 95
 Val His Thr Gly Glu Lys Pro Tyr Lys Cys His Glu Cys Gly Lys Ala
 100 105 110

4890

Phe Asn Gln Gly Ser Thr Leu Asn Arg His Gln Arg Ile His Thr Gly
 115 120 125
 Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Asn Ser Phe Ser Gln Arg
 130 135 140
 Val His Leu Arg Leu His Gln Thr Val His Thr Gly Asp Arg Pro Tyr
 145 150 155 160
 Lys Cys Asn Glu Cys Gly Gln Asn Leu Leu Asn Gly Ala Gln Thr Ser
 165 170 175
 Leu His Ile Arg
 180

<210> 5535

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5535

Pro Arg Met Ala Thr Gln Arg Lys His Leu Val Lys Asp Phe Asn Pro
 1 5 10 15

Tyr Ile Thr Cys Tyr Ile Cys Lys Gly Tyr Leu Ile Lys Pro Thr Thr
 20 25 30

Val Thr Glu Cys Leu His Thr Phe Cys Lys Thr Cys Ile Val Gln His
 35 40 45

Phe Glu Asp Ser Asn Asp Cys Pro Arg Cys Gly Asn Gln Val His Glu
 50 55 60

Thr Asn Pro Leu Glu Met Leu Arg Leu Asp Asn Thr Leu Glu Glu Ile

4891

65		70		75		80
Ile Phe Lys Leu Val	Pro Gly Leu Arg	Glu Gln Glu Leu	Glu Arg Glu			
	85		90		95	
Ser Glu Phe Trp Lys	Xaa Asn Lys	Pro Gln Xaa Asn	Gly Gln Asp Asp			
	100	105	110			
Thr Ser Lys Ala Asp	Lys Pro Lys Val	Asp Glu Glu Gly	Asp Glu Asn			
	115	120	125			
Glu Asp Asp Lys Asp	Tyr Pro Gln Glu	Val Thr His Lys	Leu Ala Ile			
	130	135	140			
Cys Leu Gly Cys Phe	Thr Xaa Leu Met	Gly Pro Phe Gly	Gly His Val			
145	150	155	160			
Gly Lys Gly Phe						

<210> 5536
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 5536
 Asn Ser Val Lys Phe Cys Leu Lys Lys Pro Leu Ile Glu Phe Glu Asn
 1 5 10 15
 His Lys Pro Phe Gln Val Ser Leu Trp Val Cys Phe Gly Phe Phe Phe
 20 25 30
 Phe Phe Leu Ser Leu Trp Pro Asn Val Arg Gly Ile Arg Phe Cys Lys
 35 40 45
 Gln Ala Ala Val Ser Ile Ser
 50 55

<210> 5537
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

4892

<400> 5537

Ser Gly Pro Pro Gly Leu His Ser Arg Ser Ser Pro Ala Pro Ser Ala
1 5 10 15
Ser Val Glu Pro Gln Ala Trp Xaa Arg Asp Glu Arg Asp Ala Ala Leu
20 25 30
Ala Arg Gly Arg Pro Ser Ala Pro Lys Thr Arg Glu Gln Ala Pro Gly
35 40 45
Glu Lys Pro Leu Glu Val Ser Trp Ser Arg Glu Ser Pro Val Ser Cys
50 55 60

<210> 5538

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5538

Ala Phe Asp Gly Leu Ser Thr Ser Ser Ser Gln His Ile Leu Pro Ala
1 5 10 15
Val Ala Ala Trp Leu Gly Leu Phe Phe Ser Tyr Pro Asn Pro Met Met
20 25 30
Pro Gly Thr Leu Ile Thr Val Leu His Gln Leu Leu Tyr Phe Ser Val
35 40 45
Tyr Phe His Asn Glu Leu Tyr Cys His Leu Asp Phe Glu Gln Leu Trp
50 55 60
Glu Ile Glu Asp
65

<210> 5539

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5539

Gln Glu Pro Pro Ile Met Ala Glu Gly Lys Gly Gly Val Ser Cys Leu
1 5 10 15

4893

Thr Trp Pro Glu Gln Glu Val Glu Arg Gly Arg Cys His Thr Leu Thr
 20 25 30
 Asn Asn Gln Ile Ser Gly Gln Leu Thr Gln Tyr Gln Glu Asn Ser Thr
 35 40 45
 Thr Lys Leu Trp Leu Ile Ile His Glu Lys Pro Pro Thr Thr Gln Ser
 50 55 60
 Pro Pro Thr Arg Pro Tyr Leu Gln His Leu Gly Leu Gln Phe Asn Met
 65 70 75 80
 Arg Phe Gly Gly Asn Thr Asp Pro Asn His Ile Thr His Lys Leu Gln
 85 90 95
 Leu Leu His Thr His Asp Asn Pro Leu Ile Cys Glu Gly Leu Ile Cys
 100 105 110

Ser

<210> 5540
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 5540
 Ser Arg Tyr Tyr Ser Glu Ala Cys Ile Leu Tyr Ala Ser Gly His Val
 1 5 10 15
 Leu Ser Cys Glu Val Arg Cys Ile Ser Tyr Cys Gly Leu Gln Ser Lys
 20 25 30

Phe

<210> 5541
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 5541
 Gly Ala Asp Ser Ala Cys Pro Gly Pro Ala Lys Trp Leu Ser Ser Leu
 1 5 10 15
 Arg Ala His Val Val Arg Thr Gly Ile Gly Gln Ala Arg Ala Lys Leu
 20 25 30

4894

Phe Glu Lys Gln Ile Val Gln His Gly Gly Gln Leu Cys Pro Ala Gln
 35 40 45

Gly Pro Gly Val Thr His Ile Val Val Asp Glu Ala Trp Thr Met
 50 55 60

<210> 5542

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5542

Met Ser Gln Ala Gly Asn Ser Glu Val Tyr Leu Ala Ile His Val Phe
 1 5 10 15

Lys Met Ala Ala Ser Arg Arg Phe Thr Gly Val Pro Asp Arg Arg Gly
 20 25 30

Gly Gly Ala Gln Ala Arg Met Lys Leu Glu Leu Ala Arg Ser Arg Lys
 35 40 45

Thr Ile Ala Gly Gly Thr Ala Ser Val Gly Ala Glu Glu Thr
 50 55 60

<210> 5543

<211> 317

<212> PRT

<213> Homo sapiens

<400> 5543

Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser
 1 5 10 15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Lys Ile Ala Ala Arg
 20 25 30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly
 35 40 45

Arg Ile Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val
 50 55 60

Leu Ile Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr
 65 70 75 80

Leu Ala Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu

4895

	85		90		95
Phe Phe Phe Val Met Gly Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro	100		105		110
Gly Val Leu Pro Arg Ala Thr Pro Asp Glu Ala Ala Asp Leu Glu Arg	115		120		125
Gln Ile Asp Ile Ala Asn Gly Thr Ser Ser Gly Gly Tyr Arg Pro Pro	130		135		140
Pro Arg Thr Lys Glu Val Ile Ile Asn Gly Gln Thr Val Lys Leu Lys	145		150		155
Tyr Cys Phe Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser His Cys	165		170		175
Ser Leu Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys Pro Trp	180		185		190
Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Phe Phe Tyr Met Phe	195		200		205
Ile Leu Ser Leu Ser Phe Leu Thr Val Phe Ile Phe Ala Phe Val Ile	210		215		220
Thr His Val Ile Leu Arg Ser Gln Gln Thr Gly Phe Leu Asn Ala Leu	225		230		235
Lys Asp Ser Pro Ala Ser Val Leu Glu Ala Val Val Cys Phe Phe Ser	245		250		255
Val Trp Ser Ile Val Gly Leu Ser Gly Phe His Thr Tyr Leu Ile Ser	260		265		270
Ser Asn Gln Thr Thr Asn Glu Asp Ile Lys Gly Ser Trp Ser Asn Lys	275		280		285
Arg Gly Lys Glu Asn Tyr Asn Pro Tyr Ser Tyr Gly Asn Ile Phe Thr	290		295		300
Asn Cys Cys Val Ala Leu Cys Gly Pro Ser His Gln Ala	305		310		315

<210> 5544

<211> 76

<212> PRT

<213> Homo sapiens

4896

<400> 5544

Ile Val Gly Leu Phe His Met Cys Ser Leu Lys Tyr Leu Asn Asn His
 1 5 10 15

Ser Phe His Ser Leu Phe Ser Ser Gln Ala Phe Ser Arg Ser Ser Met
 20 25 30

Trp Ile Leu Lys Asp Leu Pro Ser Leu Thr Arg Ile Thr Phe Lys Gly
 35 40 45

Asp Cys Phe Lys Ile Phe Leu Gln Ile Glu Ile Arg Thr Glu Arg Leu
 50 55 60

Arg Asn Ile Val Tyr Phe Ala Lys Thr Arg Cys Leu
 65 70 75

<210> 5545

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5545

Glu Thr Leu Val Asn Trp Ser Thr Gly Glu Ser Tyr Lys Trp Pro Met
 1 5 10 15

Ser Gln Lys Ser Trp Asp Leu Leu Pro Ala Ala Ala Asp Ala Asp Arg
 20 25 30

Pro Trp Glu Ala Ala Val Leu Trp Arg Ser Trp Ser Ser Ser Phe Leu
 35 40 45

Gly Leu Ala Trp Leu Pro Gln Lys Glu Gln Ser Gly Leu Glu Gly Ser
 50 55 60

Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu Lys
 65 70 75 80

Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg Leu
 85 90 95

Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Ser Ser
 100 105 110

Arg Gln Gln Ser Gly
 115

<210> 5546

4897

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5546

Val	Gln	Ile	Asn	His	Pro	Asp	Leu	Lys	Val	Asn	Thr	Phe	Tyr	Phe	Ser
1				5					10					15	

Phe	Arg	Ser	Ile	Thr	Glu	Tyr	Ala	Ala	Phe	Arg	Tyr	Arg	Phe	Asn	Leu
			20				25						30		

Pro	Asp	Phe	Leu	Lys	Ile	Leu	Tyr	Phe	Tyr	Ile	Ala	Thr	Thr	Gly	Leu
		35					40					45			

Leu	Asn	Met	Gln	Leu	Asn	Cys	Tyr	Leu	Asn	Lys	Leu	His	Leu	Met	Glu
	50					55					60				

Lys	Lys	Lys
65		

<210> 5547

<211> 315

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5547

Asn	Ile	Glu	Gln	Glu	Asn	Glu	Lys	Leu	Lys	Ala	Glu	Leu	Glu	Lys	Leu
1				5					10					15	

Lys	Ala	His	Leu	Gly	His	Gln	Leu	Ser	Met	His	Tyr	Glu	Ser	Lys	Thr
			20					25					30		

Lys	Gly	Thr	Glu	Lys	Ile	Ile	Ala	Glu	Asn	Glu	Arg	Leu	Arg	Lys	Glu
		35					40					45			

Leu	Lys	Lys	Glu	Thr	Asp	Ala	Ala	Glu	Lys	Leu	Arg	Ile	Ala	Lys	Asn
	50					55					60				

Asn	Leu	Glu	Ile	Leu	Asn	Glu	Lys	Met	Thr	Val	Gln	Leu	Glu	Glu	Thr
65					70					75				80	

Gly	Lys	Arg	Leu	Gln	Phe	Ala	Glu	Ser	Arg	Gly	Pro	Gln	Leu	Glu	Gly
			85						90					95	

4898

Ala Asp Ser Lys Ser Trp Lys Ser Ile Val Val Thr Arg Met Tyr Glu
 100 105 110
 Thr Lys Xaa Lys Glu Leu Glu Thr Asp Ile Ala Lys Lys Asn Gln Ser
 115 120 125
 Ile Thr Asp Leu Lys Gln Leu Val Lys Glu Ala Thr Glu Arg Glu Gln
 130 135 140
 Lys Val Asn Lys Tyr Asn Glu Asp Leu Glu Gln Gln Ile Lys Ile Leu
 145 150 155 160
 Lys His Val Pro Glu Gly Ala Glu Thr Glu Gln Gly Leu Lys Arg Glu
 165 170 175
 Leu Gln Val Leu Arg Leu Ala Asn His Gln Leu Asp Lys Glu Lys Ala
 180 185 190
 Glu Leu Ile His Gln Ile Glu Ala Asn Lys Asp Gln Ser Gly Ala Glu
 195 200 205
 Ser Thr Ile Pro Asp Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu
 210 215 220
 Glu Thr Gln Leu Lys Met Ser Asp Leu Glu Lys Gln His Leu Lys Glu
 225 230 235 240
 Glu Ile Lys Lys Leu Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe
 245 250 255
 Phe Glu Glu Ile Glu Asp Leu Lys Tyr Asn Tyr Lys Glu Glu Val Lys
 260 265 270
 Lys Asn Ile Leu Leu Glu Glu Lys Val Lys Lys Leu Ser Glu Gln Leu
 275 280 285
 Gly Val Glu Leu Thr Ser Pro Val Ala Ala Ser Glu Glu Phe Glu Asp
 290 295 300
 Glu Glu Glu Ser Pro Val Asn Phe Pro Ile Tyr
 305 310 315

<210> 5548

<211> 191

<212> PRT

<213> Homo sapiens

<400> 5548

Gln Leu Asn Thr Ser Ser Thr Asn His Gln Leu Pro Ser Glu His Gln

4899

1	5	10	15
Thr Ile Leu Ser Ser Arg Asp Ser Arg Asn Ser Leu Arg Ser Asn Phe	20	25	30
Ser Ser Arg Glu Ser Glu Ser Ser Arg Ser Asn Thr Gln Pro Gly Phe	35	40	45
Ser Tyr Ser Ser Ser Arg Asp Glu Ala Pro Ile Ile Ser Asn Ser Glu	50	55	60
Arg Val Val Ser Ser Gln Arg Pro Phe Gln Glu Ser Ser Asp Asn Glu	65	70	75
Gly Arg Arg Thr Thr Arg Arg Leu Leu Ser Arg Ile Ala Ser Ser Met	85	90	95
Ser Ser Thr Phe Phe Ser Arg Arg Ser Ser Gln Asp Ser Leu Asn Thr	100	105	110
Arg Ser Leu Asn Ser Glu Asn Ser Tyr Val Ser Pro Arg Ile Leu Thr	115	120	125
Ala Ser Gln Ser Arg Ser Asn Val Pro Ser Ala Ser Glu Val Pro Asp	130	135	140
Asn Arg Ala Ser Glu Ala Ser Gln Gly Phe Arg Phe Leu Arg Arg Arg	145	150	155
Trp Gly Leu Ser Ser Leu Ser His Asn His Ser Ser Glu Ser Asp Ser	165	170	175
Glu Asn Phe Asn Gln Glu Ser Glu Gly Arg Asn Thr Gly Pro Trp	180	185	190

<210> 5549

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5549

Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe	1	5	10	15
---	---	---	----	----

Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met
20 25 30

Asn Ala Gln Arg Ile Gly Ala Ala Xaa Leu Trp Ala Leu Ile Tyr Asn
50 55 60

Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg
65 70 75 80

Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu
85 90 95

Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val
100 105 110

Gln Leu Leu Asn Ser Ser Leu Ser Ala His Gly Met Pro Thr Pro
115 120 125

<210> 5550

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5550

Leu Asn His Leu Gln Asn Ala Ser Thr Pro Gly Tyr Ser Lys Leu Pro
1 5 10 15

Phe Gln Ile His Phe Gln Thr Ala Leu Thr Trp Ala Ser His Trp Xaa
20 25 30

Ser Trp Leu Leu Val Gly Ala Ile Ser Cys Val Asp Pro Gln Val Arg
35 40 45

Gly Pro Gly Pro Pro Ala Pro Pro Xaa Gln Arg Gly Glu Pro Ala Gln
50 55 60

4901

Phe Phe Trp Ser Leu Lys Cys Val Pro Leu Leu Val Ala Arg Ser Pro
 65 70 75 80

Gln Trp Gly Gly Leu Thr Arg Thr Arg
 85

<210> 5551

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5551

Ala Arg Gln Val Lys Ser Leu Arg Asp Pro Ser Ala Lys Met Ser Lys
 1 5 10 15

Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile Thr Asp Ser Pro Glu
 20 25 30

Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr Asp Phe Thr Ser Glu
 35 40 45

Val Thr Tyr Asp Pro Ala Gly Arg Ala Gly Val Ser Asn Ile Val Ala
 50 55 60

Val His Ala Ala Val Thr Gly Leu Ser Val Glu Glu Val Val Arg Arg
 65 70 75 80

Xaa Ala Gly Xaa Glu His Cys Ser Leu Gln Ala Gly Arg Gly Arg Cys
 85 90 95

Cys Asp

<210> 5552

<211> 74

<212> PRT

<213> Homo sapiens

4902

<400> 5552

Thr Glu Glu Val Asp Ser Val Ala Val Ser Val Leu Ala Leu Gly Ser
1 5 10 15
Arg Ile Gly Glu Leu Arg Ala Pro Ile Trp Asp Glu Glu Ser Arg Lys
20 25 30
Gln Leu Ser Ile Ser Ile Lys Arg Ala Glu Gln Pro Leu Ser Leu His
35 40 45
Pro Pro Ser Ala Leu Phe Ser Leu Pro Pro Ser Leu Leu Ser Phe His
50 55 60
Ser Val Tyr Val Ser Phe Gly Pro Ile Pro
65 70

<210> 5553

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5553

Gly Thr Gly Ser Gln Cys Thr Gln His Gly Ala Ile Ser Asp Val Ile
1 5 10 15
Gln Arg Met Arg Gln Asp Lys Ser Tyr Cys Leu Ile Lys Gly Lys Leu
20 25 30
Gly Thr Gly Met Leu Phe Lys Leu Arg Lys Ile Phe Trp Gly Val Lys
35 40 45
Leu Asp Ser Thr Glu Ser Leu Glu Lys Leu Ala Trp Arg Glu Lys Arg
50 55 60
His
65

<210> 5554

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

4903

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5554
 Ala Pro Thr Asn Leu Phe Phe Phe Phe Phe Glu Thr Glu Ser Gly
 1 5 10 15
 Cys Ala Ser His Phe Leu Ser Phe Xaa Xaa Ser Glu Leu Thr Glu Gln
 20 25 30
 Pro Gly Arg Cys Gly Phe Arg Ser Leu Xaa Leu Ser Xaa Cys Ala Lys
 35 40 45
 Cys Trp Gly Arg Arg Xaa Gln Arg Val Asp Ser Gly Met Val Pro Ala
 50 55 60
 Ala Ser His Phe Tyr Ala Lys Pro Asp Phe Xaa Ser His Pro Gly Gly
 65 70 75 80
 Gln Phe

<210> 5555
 <211> 47
 <212> PRT
 <213> Homo sapiens

4904

<400> 5555

Ile Phe Ile Ile Glu Val Ser Phe Pro Leu Gly Ile Ser Leu Ser Leu
 1 5 10 15

Phe Phe Phe Asn Glu Asn Gln Ser Thr Glu Tyr Phe Val Ser Pro Arg
 20 25 30

Lys Thr Pro Gln Leu Ser Ile Met Leu Ser Thr Arg Glu Lys Leu
 35 40 45

<210> 5556

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5556

Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys
 1 5 10 15

Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile
 20 25 30

Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn
 35 40 45

Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe
 50 55 60

Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu
 65 70 75 80

Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln
 85 90 95

Met Gln Asn Pro Tyr Ser Xaa His Ser Ser Met Pro Arg Pro Asp Tyr
 100 105 110

<210> 5557

4905

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5557

Phe	Thr	Ala	Arg	Ser	Pro	Trp	Glu	Tyr	Thr	Asn	Leu	Cys	Ser	Arg	Gln
1				5					10					15	

Leu	Gly	Ala	Ser	Leu	Leu	Glu	Thr	Val	Leu	Ile	Phe	Phe	Phe	Leu	Ser
			20					25					30		

Glu	Phe	Gln	Leu	Ile	Leu	Thr	Ile	Val	Gly	Thr	Ile	Ala	Gly	Ile	Val
		35					40					45			

Ile	Leu	Ser	Met	Ile	Ile	Ala	Leu	Ile	Val	Thr	Ala	Arg	Ser	Asn	Asn
	50					55					60				

Lys	Thr	Lys	His	Ile	Glu	Glu	Glu	Asn	Leu	Ile	Asp	Glu	Asp	Phe	Gln
65					70					75					80

Asn	Leu	Lys	Leu	Arg	Ser	Thr	Gly	Phe	Thr	Asn	Leu	Gly	Ala	Glu	Gly
				85					90					95	

Ser	Val	Phe	Pro	Lys	Val	Arg	Ile	Thr	Ala	Ser	Arg	Asp	Ser	Gln	Met
			100					105					110		

Gln	Asn	Pro	Tyr	Ser	Ser	His	Thr	Gln	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Xaa	Lys
		130					135					140			

Lys	Lys	Xaa	Lys	Lys	Lys	Xaa	Gly
145					150		

4906

<210> 5558

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5558

Phe	Phe	Phe	Xaa	Val	Xaa	Glu	Lys	Ser	Ile	Leu	Leu	Val	Ser	Leu	Xaa
1				5					10					15	

Val	Cys	Leu	Val	Leu	Ser	Glu	Ile	Pro	Phe	Met	Ser	Thr	Trp	Phe	Leu
			20					25					30		

Leu	Val	Ser	Thr	Phe	Ser	Met	Leu	Pro	Leu	Leu	Xaa	Lys	Asp	Glu	Leu
		35					40					45			

Leu	Met	Pro	Ser	Val	Val	Thr	Thr	Met	Ala	Phe	Phe	Ile	Ala	Cys	Val
	50					55					60				

Thr	Ser	Phe	Ser	Ile	Phe	Glu	Lys	Thr	Ser	Glu	Glu	Glu	Leu	Gln	Leu
65				70						75				80	

Lys	Ser	Phe	Ser	Ile	Ser	Val	Arg	Lys	Tyr	Leu	Pro	Cys	Phe	Thr	Phe
				85					90					95	

Leu	Ser	Arg	Ile	Ile	Gln	Tyr	Leu	Phe	Leu	Ile	Ser	Val	Ile	Thr	Met
		100						105					110		

Val	Leu	Leu	Thr	Leu	Met	Thr	Val	Thr	Leu	Asp	Pro	Pro	Gln	Lys	Leu
		115					120						125		

4907

Pro Asp Leu Phe Ser Val Leu Val Cys Phe Val Ser Cys Leu Asn Phe
 130 135 140

Leu Phe Phe Leu Val Tyr Phe Asn Ile Ile Ile Met Trp Asp Ser Lys
 145 150 155 160

Ser Gly Arg Asn Gln Lys Lys Ile Ser
 165

<210> 5559

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5559

Gly Trp Arg His Gly Gly Glu His His Gln Asp His Val Glu Leu Gly
 1 5 10 15

Arg Asp Cys Pro Pro Lys Lys Asn Ile Gly Pro Leu Gln Ala Gln Pro
 20 25 30

Pro Leu Pro Leu Glu Phe Phe Ser Gln Ala Gln Cys Gln Lys Phe Ser
 35 40 45

Leu Gly Trp Xaa Gln Ile Cys Xaa Thr Gly Phe Pro Xaa Ser Ser Thr
 50 55 60

Leu Pro Pro
 65

<210> 5560

<211> 115

4908

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5560

Ser	Ser	Lys	Cys	Gly	Phe	Ser	Cys	Ile	Ser	Gln	Ile	Gly	Arg	Pro	Gly
1				5				10					15		

Val	Val	Gly	Val	Pro	Gly	Gly	Arg	Leu	Trp	Ala	Gly	Ser	Gln	Asp	Pro
		20					25						30		

Pro	Phe	Leu	Gly	Gly	Asp	Arg	Ala	Cys	Gly	Ala	Ala	Pro	Arg	Asn	Val
		35					40						45		

Arg	Arg	Lys	Arg	Glu	Arg	Ala	Leu	Ala	Pro	Ser	Ala	Ser	Cys	Leu	Arg
		50				55					60				

Cys	Trp	Arg	Leu	Pro	Ile	Arg	Trp	Phe	Tyr	Pro	Gln	Thr	Pro	Gly	His
65					70					75					80

Arg	Glu	Ser	Arg	Arg	Lys	Gly	Gln	Pro	Arg	Ile	Pro	Ala	Gly	Phe	Leu
				85					90					95	

His	Arg	Gly	Ala	Ser	Gln	Phe	Leu	His	Leu	Ile	Phe	Xaa	Ser	Cys	Gly
		100					105						110		

Arg	Cys	Tyr
		115

<210> 5561

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4909

<221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (193)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5561
 Glu Glu Ala Ala Lys Ala Ala Gly Thr His Phe Thr Ser Gln Gln Leu
 1 5 10 15

 Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp Met Ser
 20 25 30

 Thr Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Ala Arg Val
 35 40 45

 Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg
 50 55 60

 Asn Gln Gln Ala Glu Leu Cys Lys Asn Gly Phe Gly Pro Gln Phe Asn
 65 70 75 80

 Gly Leu Met Gln Pro Tyr Asp Asp Met Tyr Pro Gly Tyr Ser Tyr Asn
 85 90 95

 Asn Trp Ala Ala Lys Gly Leu Thr Ser Ala Ser Leu Ser Thr Lys Ser
 100 105 110

 Phe Pro Phe Phe Asn Ser Met Asn Val Asn Pro Leu Ser Ser Gln Ser
 115 120 125

 Met Phe Ser Pro Pro Asn Ser Ile Xaa Ser Met Ser Met Xaa Ser Ser
 130 135 140

4910

Met Val Pro Ser Ala Val Thr Gly Val Pro Gly Ser Ser Leu Asn Ser
 145 150 155 160

Leu Asn Asn Leu Asn Asn Leu Ser Ser Pro Xaa Leu Asn Ser Ala Val
 165 170 175

Pro Thr Xaa Ala Cys Pro Tyr Ala Pro Pro Thr Ser Ser Val Cys Leu
 180 185 190

Xaa Gly His Val Xaa Ser Ser Leu Ala Ser Leu Arg Leu Lys Ala Lys
 195 200 205

Gln Xaa
 210

<210> 5562

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5562

Thr Leu Thr Val Gln Val Val His Cys Asn Glu Val Thr His Ile Cys
 1 5 10 15

Trp Leu His Lys Leu Gln Val Leu Leu Ser Gln Tyr Gly Thr Leu Asn
 20 25 30

Cys Asp Val Val Gln Gln Leu Pro Ala Ser Ser Gln Leu Ile Arg Cys
 35 40 45

Glu Tyr Phe Gly Leu Asp Leu Gln Pro Asp Ala Val Leu Gln Pro Lys
 50 55 60

Lys Lys Val Glu Pro Met Ile Lys Asn Cys Ser Gln Asp Glu Pro Gly
 65 70 75 80

Lys Lys Ser Ala Lys Leu Pro Trp Arg Ser Ala Gly Thr Leu Val Met
 85 90 95

Thr Gly Ile Thr Pro
 100

<210> 5563

<211> 117

<212> PRT

<213> Homo sapiens

4911

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5563

Ile Pro Pro Ala Gln Leu Trp Gln Arg Leu Leu Ala Leu Val Ile Ser
 1 5 10 15

Ser Ile Ile Gln Ile His Tyr His Pro Asn Pro Ser Pro Ile Phe Gly
 20 25 30

Leu Gly Glu Lys Asn Met Asn Tyr Asp Asp Arg Thr Ser Ser Lys Pro
 35 40 45

Ser Pro Val Leu Ser Glu Tyr Pro Phe Trp Gly Cys Ile Pro Gln Lys
 50 55 60

Pro Ile Trp Gly Pro Ile Ser Met Tyr Thr Glu Leu Lys Phe Gln Val
 65 70 75 80

Pro Leu Cys Ile Lys Arg Ser Gln Asn Phe Gly Gln Ala Xaa Gly Thr
 85 90 95

Leu Lys Ser His Gln Cys Asn Tyr Thr Leu Glu Ile Ile Asn Pro Ser
 100 105 110

His Asp Tyr Ile Ser
 115

<210> 5564

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5564

Leu Pro Val Phe Glu Asp Val Gly Arg Val Cys Lys Tyr Ser Ala Phe
 1 5 10 15

Pro Leu Thr His Ala Gly Glu Asp Ala Ser Ser Leu Ala Pro Ala Val
 20 25 30

Arg Ala Gln Ile Ala Arg Val Lys Thr Ser Ser Leu Gly Arg Glu Val
 35 40 45

Cys Arg Gly Leu Glu Val Ile
 50 55

4912

<210> 5565

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5565

Lys Leu Lys Glu Ile Lys Lys Leu Leu Glu Glu Asn Ala Gly Ile Asn
1 5 10 15

Leu Tyr Asp Leu Arg Leu Gly Ser Gly Phe Leu Asp Met Thr Pro Lys
20 25 30

Ala Lys Gln Gln Lys Lys Glu Asn Leu Lys Trp Met Ser Ser Glu
35 40 45

<210> 5566

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5566

Gly Pro Val Leu His Gln Arg Ile Leu Ile Ser Ala Ser Gly Val Gly
1 5 10 15

Glu Xaa Arg Xaa Ile Tyr Ile Gly Gln Asn Arg Gly Val Glu Gln Asp
20 25 30

Tyr Ser Ile Phe
35

<210> 5567

<211> 67

<212> PRT

<213> Homo sapiens

4913

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5567

Pro	Gly	Ala	Val	Val	Gly	Val	Xaa	Arg	Val	Met	Thr	Trp	Ser	Gly	Trp
1				5					10					15	

Ala	Trp	Ala	Asp	Val	His	Ile	Val	Cys	Thr	Leu	Asp	Pro	Trp	Pro	Arg
			20					25					30		

Arg	Thr	Gln	Ile	Leu	Thr	Ser	Arg	Asn	Phe	His	Leu	Met	Asn	Ile	Met
		35					40						45		

Arg	Ile	Gly	Gly	Lys	Glu	Asn	Ser	Leu	Tyr	Arg	Ile	Asn	Pro	Ser	Phe
	50					55						60			

Leu	Gln	Gly
65		

<210> 5568

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5568

Glu	Asn	Ala	Phe	Gln	Asp	Leu	Ser	Ser	Thr	His	Pro	Leu	Ser	Leu	Pro
1				5					10					15	

Gln	Pro	His	Ile	Trp	Gly	His	Asn	Ser	Thr	Cys	Val	Lys	Asp	Asn	Leu
			20					25					30		

Leu	Leu	Phe	Thr	Glu	Pro	Pro	Gly	Ile	Gln	Asp	Asn	Lys	Xaa	Leu	His
		35					40					45			

Xaa	Asp	Gln	Gln	Val	Ser	Phe	Ser	Ala	Pro	Ser	Phe	Ile	Thr	Pro	Phe
	50					55						60			

4914

Phe Pro Ser Glu Val His Thr His Pro Tyr Met Ala Ala Val Gly Ile
 65 70 75 80

Ser Thr Gly

<210> 5569

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5569

Met Val Leu Ser Pro Ser Gly Val Ser Lys Cys Ile Arg Lys Gln Asn
 1 5 10 15

Ser Val Val Ser His Ser Ser Leu Cys Ala Arg Cys Leu Arg Arg Gly
 20 25 30

Ser Tyr Arg Ser Pro Arg Xaa Asn Gln Ala His Leu Ser Leu Gly Val
 35 40 45

Gly Gln Ser Gly Lys Ala Phe Trp Lys Met
 50 55

<210> 5570

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5570

Ser His Thr Thr Lys Asn Thr Asp Phe Thr Asp Leu Val Leu Glu Asn
 1 5 10 15

4915

His Tyr Thr Asn Ser Asn Asn Asn Ala Pro Gly Thr Lys Gly Glu Glu
 20 25 30
 Met Ser Ser Arg Val Gly Ile Leu Phe Lys Cys Leu Val Phe Asn Lys
 35 40 45
 Asn Asn Tyr Lys Thr Gln Ser Lys Thr Arg Lys Tyr Gly Pro Tyr Pro
 50 55 60
 Gly Lys Asn Lys Gln Pro Ile Glu Ala Val Leu Glu Glu Val Asn Ile
 65 70 75 80
 Leu Asp Leu Leu Glu Asn Asp Phe Asn Xaa Ser Ile Ile Asn Met Phe
 85 90 95
 Xaa Lys Leu Lys Glu Ala Arg Cys Gly Gly Ser Arg Leu
 100 105

<210> 5571
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 5571
 Asn Asp Asn Lys Gly Phe Arg Thr Ile Thr Ala Ser Ala Pro Gly Pro
 1 5 10 15
 Thr Pro Ser Ser Glu Arg Arg Ser Val Val Gly Asn Met Leu Ser Asn
 20 25 30
 Ser Val Thr Cys Tyr Arg Gly Ile Phe Gly Glu Arg Lys Ser Gln Cys
 35 40 45
 Gly Lys Leu His Cys Cys Leu Ile Leu Ile Ala Thr Ala Thr Ser Thr
 50 55 60
 Phe Ser Asn His His Pro Asp Ser Val Ser Ser His Gln His Gln Gly
 65 70 75 80
 Glu Thr Leu Tyr His Gln Lys Asp Tyr Asn Leu Leu Lys Ala Gln Met
 85 90 95
 Ile Ile Ser Ile Phe
 100

<210> 5572

4916

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5572

Asp Arg His Ala Leu Gln Ile Phe Leu Tyr Lys Ser Gly Ser Leu Phe
1 5 10 15

Pro Ile Val Leu Thr Leu Arg Leu Ser Val Gly Leu Pro Ile Arg Phe
20 25 30

Thr Ala Val Gln Val His Lys Met
35 40

<210> 5573

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5573

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
1 5 10 15

Ala Ser Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu Asn
20 25 30

His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn Glu
35 40 45

Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
50 55

<210> 5574

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5574

Ser Lys Asp Leu Val Phe Phe Thr Gln His Val Ser Arg Ile His Lys
1 5 10 15

Phe Tyr Cys Phe Ile Ala Val Ile Phe Ile Asp Val Tyr Phe Ile Val
20 25 30

Gly Leu Tyr Asn Ile Leu Leu Arg Asn Thr Tyr Ile Tyr Asn Lys Leu
35 40 45

4917

Tyr Ile Phe
50

<210> 5575

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5575

Tyr Cys Ser Phe Ser Ser Phe Phe Ala Val Ala Ser Ser Ser Leu Val
1 5 10 15

Lys Thr Leu Lys Lys Asn Thr Ala Leu Pro Trp Glu Ile Ile Thr Leu
20 25 30

Pro Asn Thr Pro Leu Val Gly Asn Lys Arg Phe Tyr Gly Thr Xaa Xaa
35 40 45

Lys Lys Xaa Ser Thr Cys Pro Phe Phe Leu Pro Val
50 55 60

<210> 5576

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5576

Ser Ser Gln Ile Lys Pro Pro Glu Ser Pro His Tyr Lys Ile Gln Ser
1 5 10 15

Tyr His Ala Ser Leu Pro Ser Val Tyr Lys Ile Cys Pro Ser Leu Gln
20 25 30

4918

Leu Gly Glu Thr Asp Leu Gly Gln Thr Pro Val Ser Leu Leu Gly Cys
 35 40 45

Leu Ala Ile Asn Phe Ser Leu Tyr Lys Thr Pro Val Leu Gln Cys Leu
 50 55 60

Val Phe Gln Cys Glu Pro Gly Asn
 65 70

<210> 5577

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5577

Val Leu Asn Lys Ser Leu Leu Tyr Glu Asn Lys Gln Tyr Phe Leu Tyr
 1 5 10 15

Leu Ser Phe Gly Cys Ile Phe Pro Tyr Phe Val Ile Ser Phe Phe Leu
 20 25 30

Thr Phe Tyr Xaa Xaa Ile Leu Thr Leu Phe Leu Ser Phe Ala Ser Val
 35 40 45

Phe Pro Arg Arg Val Leu Trp Leu Lys Cys Ile Thr Cys Lys Ile Glu
 50 55 60

<210> 5578

<211> 43

<212> PRT

<213> Homo sapiens

<220>

4919

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5578

Met	Asp	Xaa	Gln	Thr	Asn	Gly	Thr	Lys	Leu	Arg	Ser	Gln	Ile	Glu	Ile
1				5				10					15		

Asn	Gln	Ser	Val	Asp	Leu	Leu	Ile	Tyr	Gly	Asn	Val	Phe	Cys	Glu	Ile
			20					25					30		

Tyr	Gln	Leu	Met	Gly	Lys	Arg	Leu	Phe	Lys	Thr
		35					40			

<210> 5579

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

4920

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (133)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5579
 Thr Ser Gly Ile Gly Thr Ser Pro Ser Leu Arg Ser Leu Gln Ser Leu
 1 5 10 15
 Leu Gly Pro Ser Ser Lys Phe Arg His Ala Gln Gly Thr Val Leu His
 20 25 30
 Arg Asp Ser His Ile Thr Asn Leu Lys Gly Leu Asn Leu Thr Thr Pro
 35 40 45
 Gly Glu Ser Asp Gly Phe Cys Ala Asn Lys Leu Arg Val Ala Val Pro
 50 55 60
 Leu Leu Ser Ser Xaa Xaa Gln Val Ala Val Leu Glu Leu Arg Lys Pro
 65 70 75 80
 Gly Arg Leu Pro Asp Thr Ala Leu Pro Thr Leu Gln Asn Gly Ala Ala
 85 90 95
 Val Thr Asp Leu Ala Trp Asp Pro Phe Asp Pro His Arg Leu Ala Val
 100 105 110

4921

Ala Gly Glu Asp Ala Xaa Ile Arg Leu Trp Xaa Val Pro Ala Xaa Gly
 115 120 125

Xaa Xaa Arg Xaa Xaa His Xaa Xaa Xaa Asn Cys Ala Tyr Lys Ala
 130 135 140

<210> 5580

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5580

Ser Asn Ser Leu Gln Val Trp Gly Trp Gln Ile Leu Ala Pro Leu Lys
 1 5 10 15

Trp Ile Pro His Ala His Ala Ser Leu Phe Phe Ser Val Ala Arg Gly
 20 25 30

Xaa Met Asp Lys Pro Lys Leu Gln Leu Lys Thr Xaa His Arg Pro Gly
 35 40 45

Thr Val Thr His Ala Phe Asn Ile Ser Thr Leu Gly Xaa Gln Gly Gly
 50 55 60

Arg Ile Thr
 65

<210> 5581

<211> 66

<212> PRT

<213> Homo sapiens

4922

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5581

Gly	Leu	Pro	Lys	Ala	Gln	Gln	Glu	Gln	Leu	Leu	Leu	Ile	Leu	Gln	Xaa
1				5					10					15	

Pro	Xaa	Pro	Arg	Pro	Ala	Phe	His	Pro	Lys	Pro	His	Leu	Val	Ser	Met
			20					25					30		

Ser	Ile	Ser	Thr	Val	Trp	Pro	Ser	Cys	Asp	Cys	Ser	Leu	Ala	Ala	Thr
		35					40					45			

Pro	Ser	Val	Ile	Pro	His	Ser	Glu	Ser	Ser	Phe	Ser	Gly	Ser	Leu	Ala
	50					55					60				

Phe	Ser
65	

<210> 5582

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5582

Ser	Leu	Ile	Ser	Asp	Ala	Leu	Arg	Phe	Leu	Arg	Ser	Glu	Met	Ile	Lys
1				5					10					15	

Leu	Tyr	Ser	Leu	Val	Tyr	Trp	Tyr	Phe	Phe	Thr	Ser	Ser	Glu	Ile	Gly
			20					25					30		

Xaa	Met	Leu	Tyr	Val	Arg	Arg	Ala	Phe	Phe	Lys	Leu	Cys	Cys	Phe	Glu
		35					40					45			

His	Val	Tyr	Leu	Phe
	50			

4923

<210> 5583

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5583

Gln Gly Lys Lys Ser Ala Val Cys Leu Val Phe Ile Phe Val Phe Thr
1 5 10 15

Gln Val Gly Leu Leu Phe Glu Thr Phe Phe Leu Asn Lys Arg Ser Tyr
20 25 30

Lys Val Phe Thr Phe Ser Pro Ser Lys Asn Pro Ile Phe Leu Glu Phe
35 40 45

Gly Leu Ser Ile Ile Ser Gly Ile Lys Glu
50 55

<210> 5584

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5584

Thr Thr Val Asn Ile His Val Gly Gly Gly Gly Arg Leu Arg Pro Ala
1 5 10 15

Lys Ala Gln Val Arg Leu Asn His Pro Ala Leu Leu Ala Ser Thr Gln
20 25 30

Glu Ser Met Gly Leu His Arg Ala Gln Gly Leu Leu Met Pro Pro Ser
35 40 45

Thr Cys Glu Pro Gly His Glu Ala Ser Leu Lys Gln Gly Phe Gln Pro
50 55 60

Asp Ala Ile Asp Pro Gln Asn Leu Thr Trp Lys Ser Arg His
65 70 75

<210> 5585

<211> 54

<212> PRT

<213> Homo sapiens

4924

 $\langle 220 \rangle$

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5585

Ile Ser Lys Gln Leu Tyr Phe Phe Ile Gln Ala Cys His Cys Glu Pro
1 5 10 15

Val	Leu	Ile	Val	Ser	Glu	Leu	Phe	Val	Xaa	Pro	Glu	Phe	Cys	Leu	Leu
			20					25					30		

Ile Ser Phe Gln Leu His Ser Xaa Ser Phe Phe Asn Cys Val Gly Gly
35 40 45

Lys Asn Asn Gly Arg Asn
50

<210> 5586

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5586

Leu Tyr Ser Phe Ser Ser Leu Leu Pro Leu Ser Pro Arg Trp Lys Lys
1 5 10 15

Arg Thr Asn Val Glu Thr Pro Glu Gly Val Gln Leu Asp Gln Gly Asp
20 25 30

Ile Arg His Leu Thr Val Phe Ser Val Cys Pro Ser Leu Tyr Ser Asn
35 40 45

Val Arg Asn Gly Ser Val Phe Phe Phe Thr Phe Ile Gly Ser Ser Tyr
50 55 60

Phe Ser Thr Leu Phe Leu Met Cys Ser Phe Phe Asn Trp Leu Val Phe
65 70 75 80

Pro Tyr Tyr Leu Gln Leu Tyr Gly Leu
85

4925

<210> 5587

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5587

Gln Lys Asn Pro Leu Met Val Cys Phe Leu Tyr Trp Ala Thr Gln Trp

1

5

10

15

Cys Xaa Lys Val Tyr Met Lys Pro Gln Cys Lys Gln Gly Leu Ser Ser

20

25

30

Gln Asp Ile Asn Phe Asp Arg Lys Xaa Cys Val Phe Met Cys Val Cys

35

40

45

Val Ser Gly Cys Asn

50

<210> 5588

<211> 46

<212> PRT

<213> Homo sapiens

<400> 5588

Phe Cys Lys Tyr Asn Asn Asn Ser Asn Asn Thr Ile Leu Ser Phe Lys

1

5

10

15

Lys Leu Pro Ile His Phe Ser Asn Leu Thr Val Ser Gly Gly Val Tyr

20

25

30

Val Cys Leu Cys Phe His Leu Cys Asn Gly Cys Leu Ile Ile

35

40

45

<210> 5589

<211> 58

<212> PRT

<213> Homo sapiens

4926

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5589

Cys	Leu	Thr	Met	Ala	Ser	Glu	His	Val	Lys	Cys	Thr	Tyr	Ile	Leu	Gln
1				5					10					15	

Pro	Lys	Thr	Val	Cys	Ile	Lys	Leu	Gln	Pro	Ser	Ile	Ile	Lys	Phe	Xaa
			20					25					30		

Val	Gln	Phe	Gln	Asp	Gly	Asn	Gln	Gly	Phe	Phe	Phe	Arg	Asp	Val	Lys
		35					40					45			

Lys	Ser	Pro	Ser	Xaa	Ile	Ile	Leu	Asn	Leu
	50					55			

<210> 5590

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5590

Gln	Leu	Asn	Phe	Met	Asn	Met	Phe	Val	Lys	Leu	Leu	Phe	Tyr	Ile	Ser
1				5					10					15	

Cys	Gln	Ile	Glu	Lys	Phe	Ile	Ser	Ser	Leu	Leu	Tyr	Leu	Trp	Lys	Tyr
			20					25					30		

Lys	Pro	Phe	Tyr	Arg	Lys	Lys	Ser	Ser	Lys	Thr	Ile	Lys	Trp	Ile	Ser
		35					40					45			

4927

Ala Cys Phe Val Ser His Cys Leu Gln Ile Leu Trp Leu Ser Xaa Gly
 50 55 60

His Arg Ala Leu Val Gly Cys Thr Gly Xaa Pro Ile Phe Pro
 65 70 75

<210> 5591

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5591

Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa
 1 5 10 15

Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Gly Thr Ala Lys Val Tyr Gly Met Val Cys
 35 40

<210> 5592

<211> 502

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5592

Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
 1 5 10 15

Gly Arg Gly Gly Met Ala Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
 20 25 30

4928

Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
 35 40 45
 Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys
 50 55 60
 Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg
 65 70 75 80
 Asn Val Gly Leu Cys Glu Ala Ile Val Gln Phe Thr Arg Thr Phe Ser
 85 90 95
 Pro Ser Lys Pro Ala Lys Ser Leu His Thr Gln Lys Asn Arg Gln Phe
 100 105 110
 Phe Asn Glu Pro Glu Glu Asn Phe Trp Met Val Met Val Val Arg Xaa
 115 120 125
 Pro Ile Ile Glu Lys Gln Ser Lys Asp Gly Lys Pro Val Ile Glu Tyr
 130 135 140
 Gln Glu Glu Glu Leu Leu Asp Lys Val Tyr Ser Ser Val Leu Arg Gln
 145 150 155 160
 Cys Tyr Ser Met Tyr Lys Leu Phe Asn Gly Thr Phe Leu Lys Ala Met
 165 170 175
 Glu Asp Gly Gly Val Lys Leu Leu Lys Glu Arg Leu Glu Lys Phe Phe
 180 185 190
 His Arg Tyr Leu Gln Thr Leu His Leu Gln Ser Cys Asp Leu Leu Asp
 195 200 205
 Ile Phe Gly Gly Ile Ser Phe Phe Pro Leu Asp Lys Met Thr Tyr Leu
 210 215 220
 Lys Ile Gln Ser Phe Ile Asn Arg Met Glu Glu Ser Leu Asn Ile Val
 225 230 235 240
 Lys Tyr Thr Ala Phe Leu Tyr Asn Asp Gln Leu Ile Trp Ser Gly Leu
 245 250 255
 Glu Gln Asp Asp Met Arg Ile Leu Tyr Lys Tyr Leu Thr Thr Ser Leu
 260 265 270
 Phe Pro Arg His Ile Glu Pro Glu Leu Ala Gly Arg Asp Ser Pro Ile
 275 280 285
 Arg Ala Glu Met Pro Gly Asn Leu Gln His Tyr Gly Arg Phe Leu Thr
 290 295 300

4929

Gly Pro Leu Asn Leu Asn Asp Pro Asp Ala Lys Cys Arg Phe Pro Lys
 305 310 315 320
 Ile Phe Val Asn Thr Asp Asp Thr Tyr Glu Glu Leu His Leu Ile Val
 325 330 335
 Tyr Lys Ala Met Ser Ala Ala Val Cys Phe Met Ile Asp Ala Ser Val
 340 345 350
 His Pro Thr Leu Asp Phe Cys Arg Arg Leu Asp Ser Ile Val Gly Pro
 355 360 365
 Gln Leu Thr Val Leu Ala Ser Asp Ile Cys Glu Gln Phe Asn Ile Asn
 370 375 380
 Lys Arg Met Ser Gly Ser Glu Lys Glu Pro Gln Phe Lys Phe Ile Tyr
 385 390 395 400
 Phe Asn His Met Asn Leu Ala Glu Lys Ser Thr Val His Met Arg Lys
 405 410 415
 Thr Pro Ser Val Ser Leu Thr Ser Val His Pro Asp Leu Met Lys Ile
 420 425 430
 Leu Gly Asp Ile Asn Ser Asp Phe Thr Arg Val Asp Glu Asp Glu Glu
 435 440 445
 Ile Ile Val Lys Ala Met Ser Asp Tyr Trp Val Val Gly Lys Lys Ser
 450 455 460
 Asp Arg Arg Glu Leu Tyr Val Ile Leu Asn Gln Lys Asn Ala Asn Leu
 465 470 475 480
 Ile Glu Val Asn Glu Glu Val Lys Lys Leu Cys Ala Thr Gln Phe Asn
 485 490 495
 Asn Ile Phe Phe Leu Asp
 500

<210> 5593

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

4930

<400> 5593

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Asn Pro Gly Ile Leu Ser Pro Ser Asn Leu Lys Val Phe Lys Leu Ile
 1              5              10              15

Leu Phe Tyr Val Phe Leu Ala Val Tyr Val Leu Leu Lys Ser Leu Ser
      20              25              30

Phe Cys Val Lys Ile Cys Leu Ser Leu Leu His Phe Thr Ala Ser Lys
      35              40              45

Ile Lys Asn Thr Tyr Ile Leu Leu Xaa Ile Asp Ala Ser Lys
      50              55              60

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<210> 5594

<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5594

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Ser Ile Phe Arg Val Ser Pro Gly Phe Arg Ile Ala Met Ile Ile Pro
 1              5              10              15

Ser Leu Glu Glu Leu Asp Ser Leu Lys Tyr Ser Asp Leu Gln Asn Leu
      20              25              30

Ala Lys Ser Leu Gly Leu Arg Ala Asn Leu Arg Ala Thr Lys Leu Leu
      35              40              45

Lys Ala Leu Lys Gly Tyr Ile Lys His Glu Ala Arg Lys Gly Asn Glu
      50              55              60

Asn Gln Asp Glu Ser Gln Thr Ser Ala Ser Ser Cys Asp Glu Thr Glu
      65              70              75              80

Ile Gln Ile Ser Asn Gln Glu Glu Ala Glu Arg Gln Pro Leu Gly His
      85              90              95

Val Thr Lys Thr Arg Arg Arg Cys Lys Thr Val Arg Val Asp Pro Asp
      100              105              110

Ser Gln Gln Asn His Ser Glu Ile Lys Ile Ser Asn Pro Thr Glu Phe
      115              120              125

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4931

Gln	Asn	His	Glu	Lys	Gln	Glu	Ser	Gln	Asp	Leu	Arg	Ala	Thr	Ala	Lys	130	135	140	
Val	Pro	Ser	Pro	Pro	Asp	Glu	His	Gln	Glu	Ala	Glu	Asn	Ala	Val	Ser	145	150	155	160
Ser	Gly	Asn	Arg	Asp	Ser	Lys	Val	Pro	Ser	Glu	Gly	Lys	Lys	Ser	Leu	165	170	175	
Tyr	Thr	Asp	Glu	Ser	Ser	Lys	Pro	Gly	Lys	Asn	Lys	Arg	Thr	Ala	Ile	180	185	190	
Thr	Thr	Pro	Asn	Phe	Lys	Lys	Leu	His	Glu	Ala	His	Phe	Lys	Glu	Met	195	200	205	
Glu	Ser	Ile	Asp	Gln	Tyr	Ile	Glu	Arg	Lys	Lys	Lys	His	Phe	Glu	Glu	210	215	220	
His	Asn	Ser	Met	Asn	Glu	Leu	Lys	Gln	Gln	Pro	Ile	Asn	Lys	Gly	Gly	225	230	235	240
Val	Arg	Thr	Pro	Val	Pro	Pro	Arg	Gly	Arg	Leu	Ser	Val	Ala	Ser	Thr	245	250	255	
Pro	Ile	Ser	Gln	Arg	Arg	Ser	Gln	Gly	Arg	Ser	Cys	Gly	Pro	Ala	Ser	260	265	270	
Gln	Ser	Thr	Leu	Gly	Leu	Lys	Gly	Ser	Leu	Lys	Arg	Ser	Ala	Ile	Ser	275	280	285	
Ala	Ala	Lys	Thr	Gly	Val	Arg	Phe	Ser	Ala	Ala	Thr	Lys	Asp	Asn	Glu	290	295	300	
His	Lys	Arg	Ser	Leu	Thr	Lys	Thr	Pro	Ala	Arg	Lys	Ser	Ala	His	Val	305	310	315	320
Thr	Val	Ser	Gly	Gly	Thr	Xaa	Lys	Gly	Glu	Ala	Val	Leu	Gly	Thr	His	325	330	335	
Lys	Leu	Lys	Thr	Ile	Thr	Gly	Asn	Ser	Ala	Ala	Val	Ile	Thr	Pro	Phe	340	345	350	
Lys	Leu	Thr	Thr	Glu	Ala	Thr	Gln	Thr	Pro	Val	Ser	Asn	Lys	Lys	Pro	355	360	365	
Val	Phe	Asp	Leu	Lys	Ala	Ser	Leu	Ser	Arg	Pro	Leu	Asn	Tyr	Glu	Pro	370	375	380	
His	Lys	Gly	Lys	Leu	Lys	Pro	Trp	Gly	Gln	Ser	Lys	Glu	Asn	Asn	Tyr	385	390	395	400

4932

Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr Lys Lys Thr Tyr Lys
 405 410 415

Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg Lys Lys Arg Glu Gln
 420 425 430

Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly Met Arg Arg Gly Leu
 435 440 445

Ile Leu Ala Glu Asp
 450

<210> 5595

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5595

Leu Leu Lys Lys Lys Ser Gly Glu Glu Arg Tyr Leu Ser Asn Leu Leu
 1 5 10 15

Asn Leu Tyr Lys Thr Leu His Cys Arg Gly Gly Ala Thr Pro Lys Tyr
 20 25 30

Phe His Asp Leu His Gly Leu Ile Arg Phe Phe Phe Phe Tyr Thr Ile
 35 40 45

Leu Ala Thr Phe Ser Met Glu Lys Arg Gln Phe Thr Gln Phe Pro Xaa
 50 55 60

<210> 5596

<211> 307

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

4933

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5596

His	Thr	Lys	Lys	Met	Ser	Met	Leu	Lys	Pro	Ser	Gly	Leu	Lys	Ala	Pro
1				5					10					15	

Thr	Lys	Ile	Leu	Lys	Pro	Gly	Ser	Thr	Ala	Leu	Lys	Thr	Pro	Thr	Ala
			20					25					30		

Val	Val	Ala	Pro	Val	Glu	Lys	Thr	Ile	Ser	Ser	Glu	Lys	Ala	Ser	Ser
		35					40					45			

Thr	Pro	Ser	Ser	Glu	Thr	Gln	Glu	Glu	Phe	Val	Asp	Asp	Phe	Arg	Val
	50					55					60				

Gly	Glu	Arg	Val	Trp	Val	Asn	Gly	Asn	Lys	Pro	Gly	Phe	Ile	Gln	Phe
65					70					75					80

Leu	Gly	Glu	Thr	Gln	Phe	Ala	Pro	Gly	Gln	Trp	Ala	Gly	Ile	Val	Leu
				85					90					95	

Asp	Glu	Pro	Ile	Gly	Lys	Asn	Asp	Gly	Ser	Val	Ala	Gly	Val	Arg	Tyr
		100						105					110		

Phe	Gln	Cys	Glu	Pro	Leu	Lys	Gly	Ile	Phe	Thr	Arg	Pro	Ser	Lys	Leu
	115						120					125			

Thr	Arg	Lys	Val	Gln	Ala	Glu	Asp	Glu	Ala	Asn	Gly	Leu	Gln	Thr	Thr
	130					135					140				

Pro	Ala	Xaa	Arg	Ala	Thr	Ser	Pro	Leu	Cys	Thr	Ser	Thr	Ala	Ser	Met
145					150					155					160

Val	Ser	Ser	Ser	Pro	Ser	Thr	Pro	Ser	Asn	Ile	Pro	Gln	Lys	Pro	Ser
				165					170					175	

Gln	Pro	Ala	Ala	Lys	Glu	Pro	Ser	Ala	Thr	Pro	Pro	Ile	Ser	Asn	Leu
		180						185					190		

Thr	Lys	Thr	Ala	Ser	Glu	Ser	Ile	Ser	Asn	Leu	Ser	Glu	Ala	Gly	Ser
		195					200					205			

Ile	Lys	Lys	Gly	Glu	Arg	Glu	Leu	Lys	Ile	Gly	Asp	Arg	Val	Leu	Val
	210					215					220				

Gly	Gly	Thr	Lys	Ala	Gly	Val	Val	Arg	Phe	Leu	Gly	Glu	Thr	Asp	Phe
225					230					235					240

4934

Ala Lys Gly Glu Trp Cys Gly Val Glu Leu Asp Glu Pro Leu Gly Lys
 245 250 255

Asn Asp Gly Ala Val Ala Gly Thr Arg Tyr Phe Gln Cys Gln Pro Lys
 260 265 270

Tyr Gly Leu Phe Ala Pro Val His Lys Val Thr Lys Ile Gly Phe Pro
 275 280 285

Ser Thr Thr Pro Ala Lys Ala Lys Ala Asn Ala Xaa Gly Glu Leu Trp
 290 295 300

Arg Pro Arg
 305

<210> 5597

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5597

Asn Gly Gly Gly Gln His Cys Cys Trp Arg Asn Arg Met Pro His Pro
 1 5 10 15

Trp Trp Val Leu His Thr Val Ser Gly Gly Gln Val Ser Cys Gln Pro
 20 25 30

Pro Pro Arg Asn Ser Pro Pro Ser Glu Ala Thr Lys Thr Ser Arg Val
 35 40 45

Ser Gln Ser Ala Ile Leu Arg Lys Val Leu Arg Gly Thr Asp Lys Val
 50 55 60

Arg Arg Glu Ser Cys Gly Leu Glu Ala Ala Arg Asn Lys Pro Ser Arg
 65 70 75 80

Arg Arg Gly Ile Pro Ala Gly Gly Met Gly Gly Ala Gly Ala Trp Glu
 85 90 95

Met Arg Thr Gly Leu Val Met Val Cys Gly Arg Gln Leu Leu Arg Trp
 100 105 110

Arg Ala Gly Gly Arg Gly
 115

<210> 5598

4935

<211> 28
<212> PRT
<213> Homo sapiens

<400> 5598
Gln Tyr Phe Leu Lys Ile Ile Thr Tyr Ile Ile Val Thr Lys His Leu
1 5 10 15
Cys Gln Ile Arg Thr Ser Ser Thr Glu Ala Ala Val
20 25

<210> 5599
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5599
Lys Phe Trp Arg Leu Gly Xaa Leu Arg Ser Arg Ser Gln Gln Val Trp
1 5 10 15
Cys Leu Ala Arg Ala His Ser Ser Leu Pro Ser Cys Cys Val Thr Ala
20 25 30
Trp Trp Glu Gly Gln Ala Ser Ser His Gly Leu Phe Tyr Ser Gly Pro
35 40 45
Xaa Ser Ile Gly Glu Gly Ser Ala Ile Ile Thr Ser Ser Pro Arg His
50 55 60
Leu Gln Gly
65

<210> 5600
<211> 50
<212> PRT
<213> Homo sapiens

4936

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5600

Xaa Ser Val His Thr Leu Tyr Arg Asn Ser Leu Tyr Ser Ile Pro Val
1 5 10 15

Glu Gly His Phe Asn Pro His Ser Ile Pro Ser Val Leu Arg Thr Ser
20 25 30

Ser Lys Ala Ala Cys Ser Ser Ser Ser Val Val Ala Thr Leu Asp Leu
35 40 45

His Val
50

<210> 5601

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5601

Gly Asp Cys Gly Lys Gly Thr Val Tyr Lys Ala Val Gly Met Tyr Arg
1 5 10 15

Lys Ala Gln Gly Ile Gly Gln Gly Ala Gly Leu Phe Ile Val Ile Phe
20 25 30

Thr Ser Gly Leu Ile Leu Gly Gly Gly Gly Val Leu Pro Gly Thr Arg
35 40 45

Pro Tyr Gly
50

<210> 5602

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4937

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5602

Lys	Gln	Phe	Ala	Ser	Gly	Asn	Arg	Thr	Ala	Gly	Ala	Val	Phe	Leu	Gln
1				5					10					15	

Gln	Gln	Thr	Lys	His	Arg	Gly	Arg	Thr	Gln	Ala	Ser	Thr	Glu	Gln	Ala
			20					25					30		

Glu	Thr	Asp	Asp	Asn	Met	Asp	Thr	Lys	Ser	Ile	Leu	Glu	Glu	Leu	Leu
		35					40					45			

Leu	Lys	Arg	Ser	Gln	Leu	Leu	Glu	Met	Cys	Tyr	Asp	Val	Cys	Glu	Gly
	50					55					60				

Met	Ala	Phe	Leu	Glu	Ser	His	Gln	Phe	Ile	His	Arg	Asp	Leu	Ala	Ala
65					70					75					80

Arg	Asn	Cys	Leu	Val	Asp	Arg	Asp	Leu	Cys	Val	Lys	Val	Ser	Asp	Phe
			85						90					95	

Gly	Met	Thr	Arg	Tyr	Val	Leu	Asp	Asp	Gln	Tyr	Val	Ser	Ser	Val	Gly
			100					105					110		

Thr	Lys	Phe	Pro	Val	Lys	Trp	Ser	Ala	Pro	Xaa	Val	Phe	His	Tyr	Phe
		115					120					125			

Lys	Tyr	Ser	Ser	Lys	Ser	Xaa	Arg	Met	Gly	Ile	Trp	Asp	Pro	Asp	
	130					135					140				

<210> 5603

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5603

Asn	Phe	Val	Phe	Leu	Val	Glu	Lys	Gly	Phe	Leu	His	Val	Gly	Gln	Xaa
1				5					10					15	

Gly	Leu	Glu	Leu	Pro	Ile	Ser	Gly	Asp	Pro	Pro	Ala	Ser	Gln	Ser	Ala
			20					25					30		

4938

Gly Ile Thr Gly Val Ser Thr Thr Pro Arg Leu
 35 40

<210> 5604

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5604

Val Gly Val Ser Ser Gln Leu Lys Lys Lys Xaa Asn Glu Ile Gly Ser
 1 5 10 15

Arg Asn Glu Lys Gly Glu Arg Glu Arg Lys Lys Lys Met Asp Val Gly
 20 25 30

Asn Phe Val Ala Cys Ser Leu Trp Ile Leu Gln Asn Tyr His Cys Gly
 35 40 45

Tyr Cys Leu Thr Trp Leu Leu Leu Ala Met Lys Asn Gln Glu His Phe
 50 55 60

His Tyr His Phe Leu Thr Ile His Gln Pro Gln Phe Leu Gly Ile Xaa
 65 70 75 80

Leu Lys Phe

<210> 5605

<211> 429

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

4939

<400> 5605

Val	Ser	Gln	Ala	Thr	Asp	Val	Glu	Val	Gly	Thr	Asp	Leu	Val	Pro	Ser
1				5					10					15	
Val	Thr	Val	Lys	Val	Thr	Leu	Gln	Asn	Arg	Val	Xaa	Leu	Gln	Lys	Ala
			20					25					30		
Lys	Leu	Ser	Val	Tyr	Val	Gln	Pro	Pro	Leu	Glu	Leu	Thr	Cys	Asp	Gln
		35					40					45			
Phe	Thr	Phe	Glu	Phe	Met	Asn	Arg	Asn	Pro	Asp	Gly	Ile	Pro	Arg	Val
	50					55					60				
Ile	Gln	Cys	Lys	Phe	Arg	Leu	Pro	Leu	Lys	Leu	Ile	Cys	Leu	Pro	Gly
65					70					75					80
Gln	Pro	Ser	Lys	Thr	Ala	Ser	His	Lys	Ile	Thr	Ile	Asp	Thr	Asn	Lys
				85					90					95	
Ser	Pro	Val	Ser	Leu	Leu	Ser	Leu	Phe	Pro	Gly	Phe	Ala	Ser	Gln	Ser
			100					105					110		
Asp	Asp	Asp	Gln	Val	Asn	Val	Met	Gly	Phe	His	Phe	Leu	Gly	Gly	Ala
		115					120					125			
Arg	Ile	Thr	Val	Leu	Ala	Ser	Lys	Thr	Ser	Gln	Arg	Tyr	Arg	Ile	Gln
	130						135				140				
Ser	Glu	Gln	Phe	Glu	Asp	Leu	Trp	Leu	Ile	Thr	Asn	Glu	Leu	Ile	Leu
145					150					155					160
Arg	Leu	Gln	Glu	Tyr	Phe	Glu	Lys	Gln	Gly	Val	Lys	Asp	Phe	Ala	Cys
				165					170					175	
Ser	Phe	Ser	Gly	Ser	Ile	Pro	Leu	Gln	Glu	Tyr	Phe	Glu	Leu	Ile	Asp
			180					185					190		
His	His	Phe	Glu	Leu	Arg	Ile	Asn	Gly	Glu	Lys	Leu	Glu	Glu	Leu	Leu
		195					200					205			
Ser	Glu	Arg	Ala	Val	Gln	Phe	Arg	Ala	Ile	Gln	Arg	Arg	Leu	Leu	Ala
	210					215					220				
Arg	Phe	Lys	Asp	Lys	Thr	Pro	Ala	Pro	Leu	Gln	His	Leu	Asp	Thr	Leu
225					230						235				240
Leu	Asp	Gly	Thr	Tyr	Lys	Gln	Val	Ile	Ala	Leu	Ala	Asp	Ala	Val	Glu
				245					250					255	
Glu	Asn	Gln	Gly	Asn	Leu	Phe	Gln	Ser	Phe	Thr	Arg	Leu	Lys	Ser	Ala
			260					265					270		

4940

Thr His Leu Val Ile Leu Leu Ile Ala Leu Trp Gln Lys Leu Ser Ala
 275 280 285
 Asp Gln Val Ala Ile Leu Glu Ala Ala Phe Leu Pro Leu Gln Glu Asp
 290 295 300
 Thr Gln Glu Leu Gly Trp Glu Glu Thr Val Asp Ala Ala Ile Ser His
 305 310 315 320
 Leu Leu Lys Thr Cys Leu Ser Lys Ser Ser Lys Glu Gln Ala Leu Asn
 325 330 335
 Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln Leu Lys Lys
 340 345 350
 His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly Arg Leu Cys
 355 360 365
 Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met Pro Gly Gly
 370 375 380
 Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser Val Glu Gln
 385 390 395 400
 Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr Ala Glu Thr
 405 410 415
 Pro Arg Pro Glu Val Ser Pro Leu Gln Gly Val Ser Glu
 420 425

<210> 5606

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5606

Asn Ile Thr Thr Met Asn Pro Thr Ser His Cys Lys Asp Cys Val Leu
 1 5 10 15

Tyr Phe Asp Leu Ser Ser Gly Ile Gly Asp Thr Leu Phe Gly His His
 20 25 30

Glu Gly Thr Met Gln Asn Pro Ser Phe Xaa Asn Ser Phe Leu Ser Ser

4941

35

40

45

Ile Glu Asp Pro Lys Asn Gln Thr Phe Arg Val
 50 55

<210> 5607

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5607

Lys Pro Gly His Thr Ala Gly Asp Glu Trp Lys Ala Ser Glu Thr Ser
 1 5 10 15

Trp Val Phe Thr Ala Ile Pro Arg Arg Ser His Tyr His Leu Ser Cys
 20 25 30

Val Ser Cys Glu Ile Ser Ser Ser Ile Arg Phe Ser Arg Ser Thr Asn
 35 40 45

Pro Phe Gly Thr Val Cys Glu Gly Ser Lys Leu Arg Ile Ser Tyr Glu
 50 55 60

Asn Leu Ile Pro Asp Asp Leu Leu Leu Ser Pro Thr Thr Pro Arg Trp
 65 70 75 80

Asp His Leu Val Ala Gly Lys Gln Ala Gln Ala Pro Thr Asp Ser Xaa
 85 90 95

Leu

<210> 5608

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5608

Gln Arg Lys Arg Glu Glu Gly Arg Leu Asp Thr Glu Arg Cys Leu
 1 5 10 15

Ala Arg Gly Ser Gln Ser Gly Val Gln Pro Leu Gly Gly Pro Thr Pro

4942

20 25 30

Gly Glu Asp His Leu Pro Thr Ser Ser Ile Pro Thr Leu Pro Ala Pro

35 40 45

His Pro Ser Cys

50

<210> 5609

<211> 49

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5609

Ala Xaa Thr Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro
1 5 10 15

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
20 25 30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Arg Gln Arg Leu
35 40 45

Gln

<210> 5610

<211> 42

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4943

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5610

Leu	Ala	Lys	Glu	Val	Lys	Pro	Arg	Gly	Phe	Pro	Gly	Gly	Lys	Ile	Phe
1				5				10					15		

Pro	Pro	Gly	Gly	Xaa	Xaa	Gly	Asn	Pro	Pro	Thr	Gly	Pro	Val	Xaa	Pro
		20				25					30				

Gly	Val	Pro	Lys	Phe	Lys	Thr	Pro	Lys	Phe
	35					40			

<210> 5611

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5611

His	Ala	Gln	Gly	Glu	Ala	Arg	Val	Gln	Pro	Leu	Arg	Gly	Leu	Leu	Gln
1				5				10					15		

Glu	Arg	Gly	Gly	Gln	Gln	Pro	Trp	Gly	Arg	Gly	Arg	Pro	Arg	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4944

20 25 30
 Gly His Gln Gly Thr Ala Arg Trp Ala Ser Ser Cys Pro Xaa Ser Trp
 35 40 45
 Ala Arg Ser Lys Ala Arg Xaa Asp Leu Leu Ala Trp Gln Pro Xaa Pro
 50 55 60
 Gly Ala Arg Ile Ala Ala Pro Val Ile Gln Asn Pro Ala Glu Gln Xaa
 65 70 75 80
 Pro Cys Ser Cys Ala
 85

<210> 5612

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5612

Thr Lys Phe His Phe Val Cys Val Cys Val His Val Cys Val Ser Thr
 1 5 10 15

Gly Gly Leu Cys Phe Ile Leu Cys Phe Phe Asp Ser Cys Ala Thr Ser
 20 25 30

Leu Pro His Ser Pro Lys Lys Asp Lys Thr Lys Leu Ser Thr Asn Pro
 35 40 45

His Ile Xaa Val Cys Leu Ser Xaa Thr Leu Thr Thr Val Pro Ile Ile
 50 55 60

Met Ser Ser Tyr Ile Pro Cys Lys Ile Trp Val Val Ser Tyr Thr Ala
 65 70 75 80

4945

Gly Leu His Leu Thr Leu Glu Gly Lys Lys Xaa
85 90

<210> 5613

<211> 79

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5613

Asn Ser Glu Lys Glu Gln Trp Leu Cys Ser Phe Leu Ala Asn Xaa Leu
1 5 10 15

Gln Lys Glu Ser Thr Trp Thr Ser Val Pro Gly Val Glu Ile Leu Arg
20 25 30

Gly Xaa Glu Leu Val Gly Glu His Phe Pro Thr Trp Leu Arg Gln Gly
35 40 45

Phe Xaa Trp Gly Arg Gly Arg Xaa Tyr Ser Gly Gly Xaa Ser Pro Pro
50 55 60

Arg Arg His His Thr Phe Pro Pro Gly Val Pro Gln Gly Pro Arg
65 70 75

4946

<210> 5614

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5614

Leu	Ser	Phe	Phe	Ser	Leu	Thr	Ala	Ser	Tyr	Ser	Pro	Ile	Gln	Pro	His
1				5					10					15	

Ser	Leu	Ile	Lys	His	Gln	Gln	Ile	Pro	Leu	His	Ser	Pro	Pro	Ser	Lys
			20					25					30		

Val	Ser	His	His	Gln	Leu	Ile	Leu	Gln	Gln	Gln	Gln	Gln	Gln	Ile	Gln
			35				40						45		

Pro	Ile	Thr	Leu	Gln	Asn	Ser	Thr	Gln	Asp	Pro	Pro	Pro	Ser	Gln	His
	50					55					60				

Cys	Ile	Pro	Leu	Gln	Asn	His	Gly	Leu	Pro	Pro	Ala	Pro	Ser	Asn	Ala
65					70					75					80

Gln	Ser	Gln	His	Cys	Ser	Pro	Ile	Gln	Ser	His	Pro	Ser	Pro	Leu	Thr
				85					90					95	

Val	Ser	Pro	Asn	Gln	Ser	Gln	Ser	Ala	Gln	Gln	Ser	Val	Val	Val	Ser
			100					105					110		

Pro	Pro	Pro	Pro	His	Ser	Pro	Ser	Gln	Ser	Pro	Thr	Ile	Ile	Ile	His
			115				120					125			

Pro	Gln	Ala	Leu	Ile	Gln	Pro	His	Pro	Leu	Val	Ser	Ser	Ala	Leu	Gln
	130					135					140				

Pro	Gly	Pro	Asn	Leu	Gln	Gln	Ser	Thr	Ala	Asn	Gln	Val	Gln	Ala	Thr
145					150					155					160

Ala	Gln	Leu	Asn	Leu	Pro	Ser	His	Leu	Pro	Leu	Pro	Ala	Ser	Pro	Val
			165						170					175	

Val	His	Ile	Gly	Pro	Val	Gln	Gln	Ser	Ala	Leu	Val	Ser	Pro	Gly	Gln
			180					185					190		

Gln	Ile	Val	Ser	Pro	Ser	His	Gln	Gln	Tyr	Ser	Ser	Leu	Gln	Ser	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4947

195 200 205
 Pro Ile Pro Ile Ala Ser Xaa Pro Gln Met Ser
 210 215

<210> 5615
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5615
 Pro Ser Arg Leu Leu Xaa Pro Leu Ile Arg Val Ser Ile Lys Leu Lys
 1 5 10 15

Leu Arg Pro Asp Arg Arg Thr Ala Ser Xaa
 20 25

<210> 5616
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 5616
 Tyr Arg Ala Thr Phe Leu Asn Val Ser Asp Val Val Arg Pro Ser His
 1 5 10 15

Thr Ser Ala Val Ser Phe Ser Ala Ser Leu Gly Leu Ala Phe Cys Ser
 20 25 30

Ser Val Pro His Thr Met Ile Pro Leu Gly Gln Ala Phe Ala Cys Ala
 35 40 45

Val Ser Pro Val Lys Leu Thr Ser Leu Pro Leu Trp Ala Gln Ile Pro
 50 55 60

Ala Gln Val Ala Gly Val Arg Ser Ser Arg Gly Gly Glu Ser Ser Trp
 65 70 75 80

4948

Arg Ala Gly Ser Ile Val Arg Arg Lys Gly His Gly Gln Asn Pro Gly
85 90 95

Glu His Arg

<210> 5617

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5617

Gln Val Leu Cys Lys Cys Leu Pro Ser Leu Gln Val Pro Ala Thr Cys
1 5 10 15

Pro Lys Lys Arg His Ile Lys Lys Leu Ser Asp Thr Ser Pro Asp Phe
20 25 30

Ile Tyr Phe Ile Tyr Leu Thr Thr Tyr Met Leu Val Cys Arg Asn Tyr
35 40 45

Ile Leu Asp Leu Phe Pro Tyr Leu Leu Arg Thr Val Leu Leu Leu Lys
50 55 60

Ala Ala Thr
65

<210> 5618

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13.)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5618

Ser Cys Gln Val Ser Pro Ala Gly Arg Lys His Cys Xaa Pro Ser Ala
1 5 10 15

4949

Gly Ser Ser Leu Glu Ser Gln Xaa Gly Lys Arg Ser Trp Pro Leu Pro
 20 25 30

Pro Ala Asp Arg Ser Ser Ala Ser Met Arg Phe Val Val Val Thr Phe
 35 40 45

Ser Val Thr Ile Lys Gly Asp Phe Phe Leu Asn Ile Lys Leu Phe Phe
 50 55 60

Glu Gln Gly Met Asn Met Ser Phe Cys Asn Val Thr Glu Val Glu Phe
 65 70 75 80

Lys

<210> 5619

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5619

Ala Leu Leu Val His Glu Asp Lys Leu Pro Glu Gly Phe Gly Cys Met
 1 5 10 15

Leu His Ser Val Thr Ser Ser Tyr Leu Lys Ile Ser Val Leu Tyr Leu
 20 25 30

Ala Leu Tyr Leu Lys Val Asn Thr Asn Leu Thr Tyr Leu Lys Ile Phe
 35 40 45

<210> 5620

<211> 107

<212> PRT

<213> Homo sapiens

<400> 5620

Cys Leu Ser Pro Gly Thr Trp Ala Asp Leu Val Pro Gly Glu Leu Ser
 1 5 10 15

Pro Leu Leu Ala Lys Glu Leu Leu Ser Ser Gln Thr Leu Leu Leu Arg
 20 25 30

Cys Pro Pro Cys Met Val Phe Glu Val Phe Glu Val Phe Leu Glu Phe
 35 40 45

4950

Thr Cys Trp Arg Leu Gln Leu Thr Glu Arg Pro Gly Leu Asp Cys Ala
 50 55 60

Ser Cys Ser Ser Arg Thr Lys Asp Ile Ser Trp Lys Cys Met Arg Pro
 65 70 75 80

Arg Ile Cys Asp Arg Asn Gly Ser Ser His Val Arg Tyr Ala Pro Trp
 85 90 95

Lys Asp Leu Glu Ile Arg Asn Leu Ser Glu His
 100 105

<210> 5621
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 5621
 Phe Tyr Val Arg Tyr Tyr Arg Tyr Phe Glu Met Val Thr Asp Ser Phe
 1 5 10 15

Glu Ile Leu Ser Ser Leu Glu Cys Asp Ala Phe Asn Ile Ala Ser Gly
 20 25 30

Phe Arg Trp Arg Asn Thr Met Leu Leu Ser Leu Lys Ile Asn Ser Ile
 35 40 45

Ser Pro Ile Val
 50

<210> 5622
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5622
 Ser Ser Cys Met Asn Gln Gly Ser His Ser Gly Phe Gln Gly Leu Asp
 1 5 10 15

Phe Leu Val Cys Lys Arg Asp Phe Thr Met His Leu Ala Thr Ser Pro
 20 25 30

4951

Ser Ser Leu Gly Asn Xaa Lys Thr Lys Cys Arg Gln
 35 40

<210> 5623

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5623

Gln Gly Asn Pro Lys Leu Gln Lys Leu Lys Gly Gly Glu Glu Gly Pro
 1 5 10 15

Val Leu Met Ala Glu Ala Val Lys Lys Val Asn Arg Gly Asn Gly Lys
 20 25 30

Thr Ser Ser Arg Ile Leu Leu Leu Thr Lys Gly His Val Ile Leu Thr
 35 40 45

Asp Thr Lys Lys Ser Gln Ala Lys Ile Val Ile Gly Leu Xaa Asn Val
 50 55 60

Ala Gly Val Ser Val Thr Ser Leu Lys Asp Gly Leu Phe Ser Leu His
 65 70 75 80

Leu Ser Xaa Met Ser Ser Val Gly Ser Lys Gly Asp Phe Leu Leu Val
 85 90 95

Lys Arg Ala Cys Asp
 100

<210> 5624

<211> 73

<212> PRT

<213> Homo sapiens

<400> 5624

4952

Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser
 1 5 10 15
 Arg Glu Tyr Thr Ile Trp Leu Arg Gly Arg Gly Ser Pro Glu Glu Arg
 20 25 30
 Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn
 35 40 45
 Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu
 50 55 60
 Ser Gly Val Pro Ala Arg Val Ser Phe
 65 70

<210> 5625

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5625

Ser Cys Glu Asp Gly Lys Val Glu Gln Glu Ala Leu Ser Ala Phe Leu
 1 5 10 15
 His Asp Val Asn Glu Glu Ile Gln Cys Gln Ile Glu Val Asp Gly Thr
 20 25 30
 Pro Arg Gly Arg Gly Ala Gly Val Gly Ser Asp Val Pro Ser Pro Pro
 35 40 45
 Ser Pro Gly Pro Thr Asp Cys Gly His Glu Xaa Ala Gly Trp Cys Tyr
 50 55 60
 Asp Ser Arg Leu Gln His Arg Ala Leu Pro Ser Ser Pro Gln Trp Asp
 65 70 75 80
 Ile Lys Thr Thr Leu Gly Pro Phe Val Gln Gly Thr Thr Ser Ser Ile
 85 90 95
 Asp Gly Glu Asn Lys Leu Ser Arg Ala Thr Thr Gly Trp Arg Glu Ala
 100 105 110
 Gly Thr Ile Val Phe Leu Arg Ser Val Thr Ala Asp Pro Thr Asp His
 115 120 125

4953

Ala Cys Trp Tyr Thr Leu Val Pro Asp Pro Ala Cys Arg Thr Ser Ala
130 135 140

Val Cys
145

<210> 5626

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5626

Gly Gly Asn Ser Gly Asn Gly Pro Ala Lys Ile Tyr Gly Ala Ala Ala
1 5 10 15

Ala Asp Asp Thr Ala Asn Ile Thr Gln Gln Pro Asp Ala Asn Val Asp
20 25 30

Ile Asp Trp Gln Gly Gln Ala Phe Arg Gly Asn Asn Gln Gln Val Leu
35 40 45

Leu Glu Gln Leu Glu Asn Gln Gly Ile Arg Ile
50 55

<210> 5627

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5627

Lys Ala Lys Gln Cys Lys Asn Pro Leu Gln Lys Ala Arg Leu Pro Pro
1 5 10 15

Ser Thr Glu Pro Gln Leu Leu Cys Ser Pro Leu Gln Arg Gln Trp Leu
20 25 30

Leu Leu Val Thr Cys Ile Ser Cys Trp Ile Cys Val Phe Tyr Gln Gly
35 40 45

<210> 5628

<211> 39

4954

<212> PRT

<213> Homo sapiens

<400> 5628

Asp Ser Val Leu Ser Leu Ile Ser His Asn Gln Leu Phe Leu Leu Val
 1 5 10 15

Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro Pro
 20 25 30

Pro Arg Trp Ser Ser Ser Phe
 35

<210> 5629

<211> 26

<212> PRT

<213> Homo sapiens

<400> 5629

Trp His Met Pro Val Ile Pro Ala Leu Trp Glu Ser Glu Ala Gly Gly
 1 5 10 15

Ser Leu Glu Ser Arg Ser Leu Arg Leu Pro
 20 25

<210> 5630

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5630

Ile Ala Asn Ser Lys Gly Cys Thr Ser Val Ile Ile Asn Lys Asn Leu
 1 5 10 15

Ala Asn Ser Cys Gly Thr Gly Tyr Ser His Leu Ile Cys Leu Val Pro
 20 25 30

Lys Ile Ala Cys Pro Phe Pro Asn Ser Ser Gln Leu Asp Cys Ala Thr
 35 40 45

Lys Thr Asp Lys Tyr Leu Leu Gly Asn His Asn His Gly Asp Leu Leu
 50 55 60

Pro Gln Leu Gly Pro Trp Tyr Ile Phe Val Cys Ile Leu Trp Cys Tyr
 65 70 75 80

Met Gln Ile Asn Thr Phe Asn

4955

85

<210> 5631

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5631

Gln	Glu	Thr	Ser	Lys	Met	Glu	Thr	Leu	Ser	Phe	Pro	Arg	Tyr	Asn	Val
1				5					10					15	

Ala	Glu	Ile	Val	Ile	His	Ile	Arg	Asn	Lys	Ile	Leu	Thr	Gly	Ala	Asp
			20					25					30		

Gly	Lys	Asn	Leu	Thr	Lys	Asn	Asp	Leu	Tyr	Pro	Asn	Pro	Lys	Pro	Glu
		35					40					45			

Val	Leu	His	Met	Ile	Tyr	Met	Arg	Ala	Leu	Gln	Ile	Val	Tyr	Gly	Ile
	50						55				60				

Arg	Leu	Glu	His	Phe	Tyr	Met	Met	Pro	Val	Asn	Ser	Glu	Val	Met	Tyr
65					70					75				80	

Pro	His	Leu	Met	Gly	Arg	Xaa	Leu	Thr	Ile	Gln	Ala	Ile
				85					90			

<210> 5632

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4956

<221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5632
 Thr Val Leu Gly His Val Leu Tyr Leu Cys Leu Ala Pro His Leu Phe
 1 5 10 15

 Leu Asp Pro Leu Val Ile Cys Met Thr Thr Phe Lys Asn Phe Asn Phe
 20 25 30

 Val Cys Cys Leu Arg His Cys Cys Glu His Pro His Gly Val Arg His
 35 40 45

 Pro Pro Thr Leu Ala Pro Ala Ser Thr Leu Leu His Leu Thr Ser Val
 50 55 60

 Tyr Pro Ala Ala Leu Leu Leu Leu Val Cys Val Asn Glu Asp Asn
 65 70 75 80

 Leu Val Ala Val Thr Tyr Lys Cys Phe Ile Trp His His Pro Ser Val
 85 90 95

 Xaa Xaa Xaa Trp Trp Xaa Glu Xaa Thr Leu Ala Pro Thr Pro Xaa His
 100 105 110

 Thr Ser

<210> 5633
 <211> 210
 <212> PRT
 <213> Homo sapiens

4957

<220>
 <221> SITE
 <222> (145)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (159)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (179)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (182)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5633
 Lys Glu Asn Lys Val Val Leu Ile Val Gly Glu Thr Gly Ser Gly Lys
 1 5 10 15
 Thr Thr Gln Ile Pro Gln Phe Leu Leu Asp Asp Cys Phe Lys Asn Gly
 20 25 30
 Ile Pro Cys Arg Ile Phe Cys Thr Gln Pro Arg Arg Leu Ala Ala Ile
 35 40 45

Ala Val Ala Glu Arg Val Ala Ala Glu Arg Arg Glu Arg Ile Gly Gln

4958

50	55	60
Thr Ile Gly Tyr Gln Ile Arg Leu Glu Ser Arg Val Ser Pro Lys Thr		
65	70	75 80
Leu Leu Thr Phe Cys Thr Asn Gly Val Leu Leu Arg Thr Leu Met Ala		
	85	90 95
Gly Asp Ser Thr Leu Ser Thr Val Thr His Val Ile Val Asp Glu Val		
	100	105 110
His Glu Arg Asp Arg Phe Ser Asp Phe Leu Leu Thr Lys Leu Arg Asp		
	115	120 125
Leu Leu Gln Lys His Pro Thr Leu Lys Leu Ile Leu Ser Ser Ala Ala		
	130	135 140
Xaa Asp Val Asn Leu Phe Ile Arg Tyr Phe Gly Ser Cys Pro Xaa Ile		
145	150	155 160
Tyr Ile Gln Gly Xaa Pro Phe Glu Val Lys Glu Met Phe Leu Glu Asp		
	165	170 175
Ile Leu Xaa Thr Thr Xaa Xaa Thr Asn Lys Xaa Met Leu Xaa Tyr Lys		
	180	185 190
Lys Glu Lys Gln Gln Asp Glu Lys Thr Leu Ser Lys Lys Lys Lys Lys		
	195	200 205
Lys Lys		
210		

<210> 5634

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4959

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5634

Xaa	Val	Arg	Tyr	Ile	Ala	Xaa	Xaa	Ser	Ala	Ala	Xaa	Arg	Lys	Arg	Xaa
1				5					10					15	

Val	Cys	Ser	Glu	Trp	Lys	Phe	Ala	Ala	Cys	Val	Val	Asp	Arg	Leu	Cys
			20				25						30		

Leu	Met	Ala	Phe	Ser	Val	Phe	Thr	Ile	Ile	Cys	Thr	Ile	Gly	Ile	Leu
		35					40					45			

Met	Ser	Ala	Pro	Asn	Phe	Val	Glu	Ala	Val	Ser	Lys	Asp	Phe	Ala
		50				55					60			

<210> 5635

<211> 88

<212> PRT

<213> Homo sapiens

<400> 5635

Pro	Ser	Thr	Leu	Asp	Cys	Ser	Leu	Thr	Glu	Cys	Leu	Ser	Leu	Ser	Ile
1				5					10					15	

Leu	Cys	Pro	Phe	Tyr	Ser	Phe	Lys	Lys	Thr	Val	Ala	Val	Thr	Lys	Glu
			20				25						30		

Leu	Phe	Leu	Ile	Pro	Arg	Leu	Cys	Gln	Thr	Lys	Val	Ser	Ser	Leu	Arg
		35					40					45			

Leu	Leu	Asp	Phe	Asp	Ile	Lys	Tyr	Val	Phe	Ser	Ser	Ser	Asn	Phe	Ile
		50				55					60				

Tyr	Val	Tyr	Ser	Ser	Ser	Asp	Pro	Glu	Ile	Tyr	Phe	Leu	Leu	Ile	Ile
	65					70				75				80	

Leu	Thr	Trp	Ile	Pro	Gln	Ala	Ile
							85

4960

<210> 5636

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5636

Pro Gly Xaa Pro Gly Arg Pro Thr Arg Pro Ala Arg Cys Gln Gln Pro
 1 5 10 15

Gly Ala Arg Ser Gln Glu Gln Ser Ala Ser Met Asn Leu Gly Val Ser
 20 25 30

Met Leu Arg Ile Leu Phe Leu Leu Asp Val Gly Gly Ala Gln Val Leu
 35 40 45

Ala Thr Gly Lys Thr Pro Gly Ala Glu Ile Asp Phe Lys Tyr Ala Leu
 50 55 60

Ile Gly Thr Ala Val Gly Val Ala Ile Ser Ala Gly Phe Leu Ala Leu
 65 70 75 80

Lys Ile Cys Met Ile Arg Arg His Leu Phe Asp Asp Asp Ser Ser Asp
 85 90 95

Leu Lys Ser Thr Pro Gly Gly Leu Ser Asp Thr Ile Pro Leu Lys Lys
 100 105 110

Arg Ala Pro Arg Arg Asn His Asn Phe Ser Lys Arg Asp Ala Gln Val
 115 120 125

Ile Glu Leu
 130

<210> 5637

<211> 166

<212> PRT

<213> Homo sapiens

<400> 5637

Pro Thr Arg Pro His Ser Ala Arg Leu Thr Met Cys His Ser Arg Ser
 1 5 10 15

4961

Cys His Pro Thr Met Thr Ile Leu Gln Ala Pro Thr Pro Ala Pro Ser
 20 25 30
 Thr Ile Pro Gly Pro Arg Arg Gly Ser Gly Pro Glu Ile Phe Thr Phe
 35 40 45
 Asp Pro Leu Pro Glu Pro Ala Ala Ala Pro Ala Gly Arg Pro Ser Ala
 50 55 60
 Ser Arg Gly His Arg Lys Arg Ser Arg Arg Val Leu Tyr Pro Arg Val
 65 70 75 80
 Val Arg Arg Gln Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu
 85 90 95
 Leu Phe Leu Leu Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu
 100 105 110
 Glu Gly Val Pro Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala
 115 120 125
 Ser Leu Ala Pro Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu
 130 135 140
 Thr Ser Glu Pro Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln
 145 150 155 160
 Gln His Pro Ala Ala Phe
 165

<210> 5638

<211> 169

<212> PRT

<213> Homo sapiens

<400> 5638

Gly Pro Ser Trp Arg Ser Asn Pro Arg Gly Arg Ser Ser Ser Thr Trp
 1 5 10 15
 Ser Ser Ser Ser Pro Pro Arg Ser Arg Ser Arg Ser Arg Ser Ser Ser
 20 25 30
 Pro Asn Pro Ser Leu Ser Leu Ser Arg Asn Pro Ser Pro Asn His Asn
 35 40 45
 Pro Ser Leu Ser Pro Asn Pro Ser Leu Ser Pro Ser Ser Ser Thr Arg
 50 55 60

4962

Ile Arg Ile His Ile His Ile His Thr Leu Ile Leu Thr Arg Thr His
 65 70 75 80
 Thr Leu Thr Arg Thr Arg Ile Arg Thr Lys Tyr Arg Thr His Thr His
 85 90 95
 Ser Arg Thr Arg Ser Arg Thr Gly Thr Gly Phe Ser Ala Ala Pro Pro
 100 105 110
 Thr Leu Pro Glu Arg Gly Ser Ser Arg Ala Arg Gln Gly Phe Glu Asp
 115 120 125
 Leu Arg Lys Trp Asp Glu His Ile Ser Ile Val Phe Thr Trp Ile Lys
 130 135 140
 Ser Lys Thr Val Ser Pro Pro Arg Thr Arg Ser Ser Ser Leu Asp Ile
 145 150 155 160
 Thr Leu Leu Lys Thr Cys Asp Ser Ser
 165

<210> 5639

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5639

Lys Thr Phe Ser Ile Arg Lys Arg Gly Lys Phe Xaa Pro Ser Lys Phe
 1 5 10 15
 Asp Tyr Ser Ser Lys Leu Ser Leu Leu Met Gln Ser Ser Phe Val Thr
 20 25 30
 Leu Thr Leu Gly His Cys Tyr Gln Thr Ser Trp Glu Ile Ser Ser Ser
 35 40 45
 Arg Arg Leu Asn Thr Cys Arg Lys Gln Met Phe Phe Gly Pro
 50 55 60

<210> 5640

<211> 337

<212> PRT

4963

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5640

Ala	Pro	Ala	Cys	Gly	Ala	Xaa	Ala	Trp	Lys	Phe	Leu	Leu	Gly	Tyr	Leu
1				5					10					15	

Ser	Trp	Glu	Gly	Thr	Ala	Glu	Glu	His	Lys	Ala	His	Ile	Arg	Lys	Lys
			20					25					30		

Thr	Asp	Glu	Tyr	Phe	Arg	Met	Lys	Leu	Gln	Trp	Lys	Ser	Val	Ser	Pro
		35					40					45			

Glu	Gln	Glu	Arg	Arg	Asn	Ser	Leu	Leu	His	Gly	Tyr	Arg	Ser	Leu	Ile
	50					55					60				

Glu	Arg	Asp	Val	Ser	Arg	Thr	Asp	Arg	Thr	Asn	Lys	Phe	Tyr	Glu	Gly
65					70					75					80

Pro	Glu	Asn	Pro	Gly	Leu	Gly	Leu	Leu	Asn	Asp	Ile	Leu	Leu	Thr	Tyr
				85					90					95	

Cys	Met	Tyr	His	Phe	Asp	Leu	Gly	Tyr	Val	Gln	Gly	Met	Ser	Asp	Leu
			100					105					110		

Leu	Ser	Pro	Ile	Leu	Tyr	Val	Ile	Gln	Asn	Glu	Val	Asp	Ala	Phe	Trp
		115					120					125			

Cys	Phe	Cys	Gly	Phe	Met	Glu	Leu	Val	Gln	Gly	Asn	Phe	Glu	Glu	Ser
	130					135					140				

Gln	Glu	Thr	Met	Lys	Arg	Gln	Leu	Gly	Arg	Leu	Leu	Leu	Leu	Leu	Arg
145					150				155						160

Val	Leu	Asp	Pro	Leu	Leu	Cys	Asp	Phe	Leu	Asp	Ser	Gln	Asp	Ser	Gly
				165					170					175	

Ser	Leu	Cys	Phe	Cys	Phe	Arg	Trp	Leu	Leu	Ile	Trp	Phe	Lys	Arg	Glu
			180					185					190		

Phe	Pro	Phe	Pro	Asp	Val	Leu	Arg	Leu	Trp	Glu	Val	Leu	Trp	Thr	Gly
			195				200					205			

Leu	Pro	Gly	Pro	Asn	Leu	His	Leu	Leu	Val	Ala	Cys	Ala	Ile	Leu	Asp
	210					215					220				

Met	Glu	Arg	Asp	Thr	Leu	Met	Leu	Ser	Gly	Phe	Gly	Ser	Asn	Glu	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4964

225 230 235 240
 Leu Lys His Ile Asn Glu Leu Thr Met Lys Leu Ser Val Glu Asp Val
 245 250 255
 Leu Thr Arg Ala Glu Ala Leu His Arg Gln Leu Thr Ala Cys Pro Glu
 260 265 270
 Leu Pro His Asn Val Gln Glu Ile Leu Gly Leu Ala Pro Pro Ala Glu
 275 280 285
 Pro His Ser Pro Ser Pro Thr Ala Ser Pro Leu Pro Leu Ser Pro Thr
 290 295 300
 Arg Ala Pro Pro Thr Pro Pro Pro Ser Thr Asp Thr Ala Pro Gln Pro
 305 310 315 320
 Asp Ser Ser Leu Glu Ile Leu Pro Glu Glu Glu Asp Glu Gly Ala Asp
 325 330 335
 Ser

<210> 5641

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5641

Met Gln Leu Leu Leu Leu Thr Cys Leu Leu Gln Leu Ile Met Val Thr
 1 5 10 15

Asn Lys Ala Ile Ala Ser Gln Ile Ser Gln Ile Lys His Phe Phe His
 20 25 30

Cys Ile Leu Val Val Val Cys Pro Asn Ser Ser Met Tyr Leu Ile Met
 35 40 45

Ser Gly Ser Ile Leu His
 50

<210> 5642

<211> 65

<212> PRT

<213> Homo sapiens

<220>

4965

<221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5642
 Cys Leu Trp Leu Phe Lys Ser Gln Ser Leu Val Asn His Ile Thr Ile
 1 5 10 15
 Arg Pro Trp Phe Ser Ile Gly Gly Asp Phe Pro Arg Gly Thr Phe Gly
 20 25 30
 His Val Leu Glu Ala Phe Trp Leu Ser His Trp Xaa Pro Gly Val Xaa
 35 40 45
 Leu Pro Xaa Thr Lys Lys Lys Lys Lys Lys Lys Arg Gly Ala Phe
 50 55 60
 Leu
 65

<210> 5643
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5643
 Thr Asn Phe Phe Gln Leu Val Lys His His Thr Ser Ser Ala Lys Gly
 1 5 10 15
 Ile Leu Leu Ala Glu Pro Ser Trp Met Ile Ser Val Thr His Ala Xaa
 20 25 30
 Thr Cys Ser Leu Glu Gly Ser Gly Glu Trp Ile His Ala Ile Cys Leu
 35 40 45

4966

Glu Asp Thr Arg Met Ser Gln Pro Pro Asp Leu Val Ile Tyr Lys Leu
 50 55 60

Leu Arg Ile Thr Leu Val Tyr Phe Trp Ser Glu Asn Gly Lys Ala Gln
 65 70 75 80

Ile Met Lys

<210> 5644

<211> 407

<212> PRT

<213> Homo sapiens

<400> 5644

Ala Ala Cys Gln Pro Arg Cys Cys Cys Ser Ser Cys Cys Gly Thr Ala
 1 5 10 15

Asp Arg Ala Ala Ala Pro Leu Ser Pro Leu Gln Ala Pro Ile Trp Ala
 20 25 30

Pro Ala Thr Ser Met Asp Ala Arg Arg Val Pro Gln Lys Asp Leu Arg
 35 40 45

Val Lys Lys Asn Leu Lys Lys Phe Arg Tyr Val Lys Leu Ile Ser Met
 50 55 60

Glu Thr Ser Ser Ser Ser Asp Asp Ser Cys Asp Ser Phe Ala Ser Asp
 65 70 75 80

Asn Phe Ala Asn Thr Arg Leu Gln Ser Val Arg Glu Gly Cys Arg Thr
 85 90 95

Arg Ser Gln Cys Arg His Ser Gly Pro Leu Arg Val Ala Met Lys Phe
 100 105 110

Pro Ala Arg Ser Thr Arg Gly Ala Thr Asn Lys Lys Ala Glu Ser Arg
 115 120 125

Gln Pro Ser Glu Asn Ser Val Thr Asp Ser Asn Ser Asp Ser Glu Asp
 130 135 140

Glu Ser Gly Met Asn Phe Leu Glu Lys Arg Ala Leu Asn Ile Lys Gln
 145 150 155 160

Asn Lys Ala Met Leu Ala Lys Leu Met Ser Glu Leu Glu Ser Phe Pro
 165 170 175

4967

Gly Ser Phe Arg Gly Arg His Pro Leu Pro Gly Ser Asp Ser Gln Ser
 180 185 190
 Arg Arg Pro Arg Arg Arg Thr Phe Pro Gly Val Ala Ser Arg Arg Asn
 195 200 205
 Pro Glu Arg Arg Ala Arg Pro Leu Thr Arg Ser Arg Ser Arg Ile Leu
 210 215 220
 Gly Ser Leu Asp Ala Leu Pro Met Glu Glu Glu Glu Glu Asp Lys
 225 230 235 240
 Tyr Met Leu Val Arg Lys Arg Lys Thr Val Asp Gly Tyr Met Asn Glu
 245 250 255
 Asp Asp Leu Pro Arg Ser Arg Arg Ser Arg Ser Ser Val Thr Leu Pro
 260 265 270
 His Ile Ile Arg Pro Val Glu Glu Ile Thr Glu Glu Glu Leu Glu Asn
 275 280 285
 Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser
 290 295 300
 Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys
 305 310 315 320
 Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys
 325 330 335
 Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro
 340 345 350
 Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys
 355 360 365
 Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala
 370 375 380
 Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys
 385 390 395 400
 Gln Glu Phe Glu Met Gln Ala
 405

<210> 5645

<211> 44

<212> PRT

<213> Homo sapiens

4968

<400> 5645

Arg Glu Ala Ser Gly Ser Leu Trp Glu Gln Ser Tyr Lys Leu Ile Glu
 1 5 10 15

Ile His Thr Leu Pro Lys Gln Leu Gly Pro Thr Thr Val Pro His Val
 20 25 30

Ser Met Gln Asn Tyr Ile Leu Pro Arg Ile Asn Ser
 35 40

<210> 5646

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5646

Lys Met Xaa Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15

Ala Val Xaa Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30

Ser Ala Pro Leu Cys Met Tyr Ser Ser Leu Leu Pro Ser Ser Gln Leu
 35 40 45

Ser Val Arg Tyr Val Phe Leu Ser
 50 55

<210> 5647

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5647

Ser Val Cys Val His Thr Phe Tyr Phe Ser Val Ser Trp Val Tyr Val
 1 5 10 15

4969

Trp Leu Lys Thr Ile Leu Glu Ser Lys Ser Ile Leu Ile Tyr Lys Lys
 20 25 30

Thr Phe Trp
 35

<210> 5648

<211> 106

<212> PRT

<213> Homo sapiens

<400> 5648

Gln Cys Pro Met Gly Pro Leu Leu Leu Pro Ala Pro Ser Leu Leu Leu
 1 5 10 15

Leu Met His Ser Pro Leu Pro Ala Ala Pro Gly Phe Pro Ala Phe Leu
 20 25 30

Leu Thr Pro Ser Asn Ser Leu Gly Thr Pro Ala Ala Thr Thr Leu Trp
 35 40 45

Val Gly His Trp Asp Pro Leu Ala Gln Ser Trp Leu Leu Leu Thr Pro
 50 55 60

Ser Leu Asp Ala Cys Pro Gly Thr Pro Ser Pro Leu Pro Leu Pro Cys
 65 70 75 80

Ser Phe Asn Arg Val Asn His Val Tyr Cys Thr Gly Ala Val Val Ile
 85 90 95

Ala Glu Thr Ala Gly Trp Arg Arg Ser Arg
 100 105

<210> 5649

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5649

Arg Asn Pro Lys Asn Gly Asn Asn Pro Ser His Gly Cys His Thr Leu
 1 5 10 15

Leu Thr Cys Ser Ile Pro Thr Gln Glu Leu Pro Ala Tyr Gly Ala Ser
 20 25 30

His Trp Ser Thr Ser Tyr Pro Gln His Leu Ser Cys His Cys Gln Gly

4970

35 40 45
 Thr Tyr Leu Trp Pro Pro Ala Ile Leu Tyr Arg Ala Ile Val Leu Tyr
 50 55 60
 Ile Leu His Ile Arg Lys Leu Arg Leu Lys Val Asn Leu Ile Cys Leu
 65 70 75 80
 Cys Gln Ser Gln Asp
 85

<210> 5650

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5650

Gly Pro Tyr Xaa Tyr Phe Leu Pro Gly Glu Cys Leu Asp Cys Ser Pro
 1 5 10 15

Leu Leu Val Leu Gln Gly Val Thr His Ala Ala Ile Trp Ala Ala Cys
 20 25 30

Ile Ser Tyr Leu Ser Ala Ala Val Pro Pro Glu Leu Arg Thr Ser Ala
 35 40 45

Gln Gly Ile Leu Gln Gly Leu His Leu Gly Leu Gly Arg Gly Cys Gly
 50 55 60

Ala Met Ile Gly Gly Val Leu Val Asn Tyr Phe Gly Ala Ala Ala Thr
 65 70 75 80

Phe Arg Gly Ile Gly Met Ala Cys Leu Val Ile Leu Leu Leu Phe Ala
 85 90 95

Leu Ile Gln Trp Leu Ala Val Pro Asp Glu Glu Glu Asp Lys Thr Met
 100 105 110

Leu Ala Glu Arg Ile Pro Val Pro Ser Ser Pro Val Pro Ile Ala Thr

4971

115		120		125
Ile Asp Leu Val Gln Gln Gln Thr Glu Asp Val Met Pro Arg Ile Glu				
130		135		140
Pro Arg Leu Pro Pro Lys Lys Thr Lys His Gln Glu Glu Gln Glu Asp				
145		150		155
				160
Val Asn Lys Pro Ala Trp Gly Val Ser Ser Ser Pro Trp Val Thr Phe				
	165		170	175
Xaa Tyr Ala Leu Tyr Gln Ile Lys Glu Met Met Gln Leu Thr Arg Asp				
	180		185	190
Asn Arg Ala Ser Glu Ile Gln Pro Leu Gln Gly Thr Asn Glu Asn Arg				
	195		200	205
Glu Asn Ser Pro Ala Gly Arg Ala Gln Pro Val Pro Cys Glu Thr His				
	210		215	220
Ser Asp Pro Ser Arg Asn Gln Pro Ser Pro Asp Ala Ala Ala Ser Gln				
	225		230	235
				240
Thr Gln Thr Ser Pro Ala His Pro Ser Val Asp Pro Cys Thr Glu Glu				
	245		250	255
Ser Glu Glu Gln Gln Ala Gln Leu Ala Ala Gly Gly His				
	260		265	

<210> 5651

<211> 364

<212> PRT

<213> Homo sapiens

<400> 5651

Cys Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln Gly Ile
1 5 10 15
Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu Arg Val
20 25 30
Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn Arg Arg
35 40 45
Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr Ala Asp
50 55 60
Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu Asn Ser
65 70 75 80

4972

Ser	Cys	Lys	Ala	Cys	Gly	Ser	Thr	Glu	Asp	Gly	Asn	Thr	Cys	Val	Glu	85	90	95	
Val	Ile	Val	Thr	Asn	Glu	Asn	Thr	Ser	Cys	Thr	Cys	Pro	Ser	Ser	Gly	100	105	110	
Asn	Leu	Leu	Gly	Ser	Pro	Lys	Ile	Lys	Lys	Gly	Leu	Ser	Pro	His	Cys	115	120	125	
Asn	Gly	Ser	Asp	Cys	Gly	Tyr	Ser	Ser	Ser	Met	Glu	Gly	Ser	Glu	Thr	130	135	140	
Gly	Ser	Arg	Glu	Gly	Ser	Asp	Val	Ala	Cys	Thr	Glu	Gly	Ile	Cys	Asn	145	150	155	160
His	Asp	Glu	His	Gly	Asp	Asp	Ser	Cys	Val	His	His	Cys	Glu	Asp	Lys	165	170	175	
Glu	Asp	Asp	Gly	Asp	Ser	Cys	Val	Glu	Cys	Trp	Ala	Asn	Ser	Glu	Glu	180	185	190	
Asn	Asp	Thr	Lys	Gly	Lys	Asn	Lys	Lys	Lys	Lys	Lys	Lys	Ser	Lys	Ile	195	200	205	
Leu	Lys	Cys	Asp	Glu	His	Ile	Gln	Lys	Leu	Gly	Ser	Cys	Ile	Thr	Asp	210	215	220	
Pro	Gly	Asn	Arg	Glu	Thr	Ser	Gly	Asn	Thr	Met	His	Thr	Val	Phe	His	225	230	235	240
Arg	Asp	Lys	Thr	Lys	Asp	Thr	His	Pro	Glu	Ser	Cys	Cys	Ser	Ser	Glu	245	250	255	
Lys	Gly	Gly	Gln	Pro	Leu	Pro	Trp	Phe	Glu	His	Arg	Lys	Asn	Val	Pro	260	265	270	
Gln	Phe	Ala	Glu	Pro	Thr	Glu	Thr	Leu	Phe	Gly	Pro	Asp	Ser	Gly	Lys	275	280	285	
Gly	Ala	Lys	Ser	Leu	Val	Glu	Leu	Leu	Asp	Glu	Ser	Glu	Cys	Thr	Ser	290	295	300	
Asp	Glu	Glu	Ile	Phe	Ile	Ser	Gln	Asp	Glu	Ile	Gln	Ser	Phe	Met	Ala	305	310	315	320
Asn	Asn	Gln	Ser	Phe	Tyr	Ser	Asn	Arg	Glu	Gln	Tyr	Arg	Gln	His	Leu	325	330	335	
Lys	Glu	Lys	Phe	Asn	Lys	Tyr	Cys	Arg	Leu	Asn	Asp	His	Lys	Arg	Pro	340	345	350	

4973

Ile Cys Ser Gly Trp Leu Thr Thr Ala Gly Ala Asn
 355 360

<210> 5652

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5652

Ala Thr Leu Trp Asp Gly His Ala Ala Val Trp His Gly Tyr Glu Val
 1 5 10 15

His Gly Met Glu Lys Ile Pro Glu Asp Gly Pro Ala Leu Ile Ile Phe
 20 25 30

Tyr His Gly Ala Ile Pro Ile Asp Phe Tyr Tyr Phe Met Ala Lys Ile
 35 40 45

Phe Ile His Lys Gly Arg Thr Cys Arg Val Val Ala Asp His Phe Val
 50 55 60

Phe Lys Ile Gln Gly Leu Val Tyr Tyr Trp Met Cys Phe Val Leu Tyr
 65 70 75 80

Met Asp Gln Glu Lys Asn Val Leu Lys Phe
 85 90

<210> 5653

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5653

His Ser Xaa Met Trp Leu Val His Leu Thr Arg Glu Glu Trp Gly Tyr
 1 5 10 15

Leu Asp Pro Val Gln Arg Asp Leu Tyr Arg Glu Val Met Leu Glu Asn
 20 25 30

Tyr Gly Asn Val Val Ser Leu Gly Ile Leu Leu Arg Leu Pro Thr Thr
 35 40 45

4974

Arg Ile His Ser Val Asn Ser Cys Pro Ala Leu Ser His Thr Gln Ala
 50 55 60

Ser Ala Phe Ser Gly Glu Thr Leu Ala Val Leu Thr Ala Gly Ile Ser
 65 70 75 80

Lys Arg Trp Pro Lys Tyr Arg Leu Pro Ile Asp Ile Ala Arg Pro Cys
 85 90 95

Ser Glu Thr Pro Phe Pro Arg Leu
 100

<210> 5654

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5654

Pro Leu Lys Thr Phe Pro Val Cys Leu Val Ile Ala Lys Pro Arg Lys
 1 5 10 15

Ile Ser Phe Leu Ser Ser Tyr Arg Glu Leu Ala Met Lys Leu Lys Phe
 20 25 30

Asn Cys Val Ser Arg Ser Leu Ile Phe Leu Gln Ile Ile Asn Tyr Val
 35 40 45

Leu

<210> 5655

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5655

Lys Leu Asp Phe Lys Ile Thr Asn Glu Arg Asn Leu Ile Leu Phe Cys
 1 5 10 15

Asp Arg Ser Gln Val Leu Gln Trp Phe Ala Ile Gln Asn Leu Ile Ile
 20 25 30

Val Lys Pro Gln Phe Lys Arg Leu
 35 40

4975

<210> 5656

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5656

Gly	Tyr	Leu	Cys	Leu	Leu	Cys	Ile	Leu	Val	Met	Ala	Arg	Ser	Arg	Leu
1				5					10					15	

Ser	Thr	Thr	Gly	Arg	His	Pro	Ala	Val	Val	Ser	Leu	Leu	Glu	Leu	Asn
			20					25					30		

Val	Trp	Leu	Ser	Lys	Ile	Leu	Ser	Ile	Glu	Ser	Leu	Ser	Leu	Lys	Xaa
		35				40						45			

Leu	Leu	Gln	Met	Asn	Ala	Gln	His	Glu	Ile	Phe	Lys	Ile	Val	Ser	Tyr
		50				55					60				

Thr	Leu	Gly	Ser	Asn	Lys	Gln	Lys	Ile	Leu
65					70				

<210> 5657

<211> 121

<212> PRT

<213> Homo sapiens

<400> 5657

Phe	Ser	Val	Thr	Gly	Gln	Ala	Pro	Val	Glu	Ile	Ser	Phe	Val	Leu	Leu
1				5					10					15	

Trp	Ala	Gln	Arg	Trp	Trp	Trp	Phe	Gly	Ser	Ser	Glu	Asp	Cys	Leu	Gly
			20					25					30		

Arg	Phe	Ser	Gly	His	Gly	Ala	Leu	Cys	Trp	Pro	Gly	Trp	Gly	Trp	Pro
		35					40					45			

Arg	Arg	Cys	Pro	Phe	Pro	Gly	Ala	Leu	Trp	Trp	Leu	Gln	Lys	Thr	Ser
		50				55					60				

Phe	Val	Glu	Asn	Cys	Phe	Ser	Ala	Trp	Asn	Gln	Thr	Ser	Ser	Arg	Trp
65						70				75					80

Phe	Gly	Pro	Cys	Pro	Cys	Val	Gly	His	Tyr	His	Thr	Lys	Arg	Pro	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4976

85								90					95		
Lys	Ile	Lys	Lys	Ile	Lys	Lys	Lys	Lys	Thr	Asn	Tyr	Trp	Arg	Trp	Trp
100								105					110		
Pro	Met	Met	His	Leu	Leu	Phe	Ala	Gly							
115								120							

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<210> 5658
<211> 25
<212> PRT
<213> Homo sapiens
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<400> 5658
Trp Thr Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Ala Gly Glu Ser
  1             5             10             15
Leu Glu Pro Gly Arg Gln Arg Leu Gln
      20             25

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<210> 5659
<211> 52
<212> PRT
<213> Homo sapiens
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<400> 5659
Ser Ile Asp Thr Phe Tyr Ile Gln Phe Tyr Lys Tyr Lys Tyr Tyr Asn
  1             5             10             15
Phe Ile Leu Met Val Pro Lys Ile His Phe Leu Arg Leu Lys Ala Cys
      20             25             30
Thr Ser Met His Thr Cys Phe Trp Gly Glu Trp Gly Glu Asp Ile Leu
      35             40             45
Ile Ile Ser Leu
      50

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```
<210> 5660
<211> 49
<212> PRT
<213> Homo sapiens
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<400> 5660
Tyr Ile Phe Leu Ile Ser Tyr Arg Leu Tyr Arg Lys Glu Val Leu Glu

4977

1 5 10 15
Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
 20 25 30
Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Cys
 35 40 45
Asn

<210> 5661

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

4978

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5661

Gln	Trp	Val	Ala	Tyr	Gly	Ser	Glu	Pro	His	Thr	Ser	Val	Pro	Val	Pro
1				5					10					15	
Ala	Gly	Ser	Leu	Pro	Asp	His	Ala	Val	His	Arg	Pro	His	Asp	Arg	Cys
			20					25					30		
Ala	Arg	Ser	Gly	Val	Met	Pro	Pro	Ala	Gln	Leu	Thr	Thr	Ile	Asn	Gln
		35					40					45			
Ser	Gln	Leu	Ser	Ala	Gln	Leu	Gly	Leu	Asn	Leu	Gly	Gly	Ala	Ser	Met
	50					55					60				
Pro	His	Thr	Ser	Pro	Ser	Pro	Pro	Ala	Ser	Lys	Ser	Ala	Thr	Pro	Ser
65					70					75					80
Pro	Ser	Ser	Ser	Ile	Asn	Glu	Glu	Asp	Ala	Asp	Glu	Ala	Asn	Arg	Ala
				85					90					95	
Ile	Gly	Glu	Lys	Arg	Ala	Ala	Pro	Asp	Ser	Gly	Lys	Lys	Pro	Lys	Thr
		100						105					110		
Pro	Lys	Xaa	Lys	Xaa	Xaa	Lys	Asp	Pro	Asn	Glu	Pro	Gln	Lys	Pro	Val
		115					120					125			
Ser	Ala	Tyr	Ala	Leu	Phe	Phe	Arg	Asp	Thr	Gln	Ala	Ala	Ile	Lys	Gly
	130					135					140				
Gln	Asn	Pro	Asn	Ala	Thr	Phe	Gly	Glu	Val	Ser	Xaa	Ile	Val	Ala	Ser
145					150					155					160
Met	Trp	Asp	Ser	Leu	Gly	Glu	Glu	Gln	Lys	Gln	Val	Tyr	Lys	Arg	Lys
				165					170					175	
Thr	Glu	Ala	Ala	Lys	Lys	Glu	Tyr	Leu	Lys	Ala	Leu	Ala	Ala	Tyr	Arg
		180						185					190		
Ala	Xaa	Leu	Val	Ser	Lys	Ala	Ala	Ala	Glu	Ser	Ala	Glu	Ala	Gln	Thr
		195					200					205			
Ile	Arg	Ser	Val	Gln	Gln	Thr	Leu	Xaa	Xaa	Thr	Asn	Leu	Thr		
	210					215					220				

<210> 5662

<211> 48

<212> PRT

<213> Homo sapiens

4979

<400> 5662

Arg Tyr Ile Ile Thr Lys Leu Lys Leu Cys Phe Cys Phe Ile Gln Arg
 1 5 10 15

Asn Leu Lys Ile Ile Asp Lys Lys Phe Leu Phe Arg Ala Met Ser Leu
 20 25 30

Tyr His Thr Leu Gly Asn Glu Thr Leu Ser Tyr Val Leu Ser Asp Asn
 35 40 45

<210> 5663

<211> 94

<212> PRT

<213> Homo sapiens

<400> 5663

Lys Leu Arg Tyr Ile Leu Pro Lys Asn Phe Phe Asn Lys Ile Ala Lys
 1 5 10 15

Asn Ile Leu Phe Arg His Phe Asn Val Pro Ile Tyr Asn Trp Ile Phe
 20 25 30

Ser Leu Asn Ser Thr Gln Ser Cys Gly Phe Tyr Phe Gln Leu Ile Phe
 35 40 45

Phe Leu Val Gly Ser Val His Gly Ile Ile Ser Leu Ser Arg Gly Leu
 50 55 60

Ser Cys Met Cys Ala Glu Phe Val Lys Glu Ser Ile Gly Arg Cys Arg
 65 70 75 80

Arg Pro Arg Phe Ala Phe Lys Val Phe Phe Arg Leu Cys Gly
 85 90

<210> 5664

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5664

Gly Val Phe Ala Ala Met Tyr Ser Tyr Ser Ser Met Leu Thr Leu Pro
 1 5 10 15

4980

Phe Asp Val Val Gln Asn Leu Asp Leu Ser Pro Trp Ile Ser Pro Val
 20 25 30

Val Pro Ala Ser Arg Gly Ile Phe Leu His Val Ser Gln Pro Pro Ser
 35 40 45

Cys Ser Arg Val Leu Leu Asp Leu Gly Phe Ser Cys Pro Ser Leu Leu
 50 55 60

Gly
 65

<210> 5665

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5665

Ile Ser Asn Thr Ser Ser Asp Cys Arg Pro Ser Glu Glu Ser Glu Leu
 1 5 10 15

Leu Thr Asp Thr Thr Thr Asn Ile Leu Ser Gly Thr Thr Ser Thr Val
 20 25 30

Glu Ser Asp Ile Leu Thr Gln Thr Asp Arg Glu Val Ala Leu His Glu
 35 40 45

Arg Ser Ser Ser Val Ser Thr Ile Asp Thr Ala Arg Leu Ile Gln Ala
 50 55 60

Phe Gly His Glu Arg Val Cys Leu Ser Pro Arg Arg Ile Lys Leu Tyr
 65 70 75 80

Ser Ser Ile Thr Asn Gln Gln Arg Arg Tyr Leu Glu Glu Ala Xaa Lys
 85 90 95

His Ser Lys Lys Val Leu Xaa Tyr Arg Ser Ser Pro Ser Asp Phe
 100 105 110

4981

<210> 5666
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5666
 Gly Pro Ser Trp Val Arg Leu Gly Leu Ser Trp Ala Leu Tyr Val Phe
 1 5 10 15
 Trp Ile Gln Gly Tyr Trp Ala Arg Tyr Val Cys Gly Xaa Ile Pro Ser
 20 25 30
 Leu Pro Gln Pro His Leu Pro Leu Lys Pro Ser Leu Ala Leu Ser Glu
 35 40 45
 Leu Pro Phe Leu Leu Pro Ser Leu Pro Ser Ala Gln Cys Pro Thr Trp
 50 55 60
 Leu Phe Cys Tyr Phe Gly Ser Gly Gly Thr Ser Trp Glu Cys Glu Xaa
 65 70 75 80
 Pro Tyr Arg Lys Ile Ala Leu Gln Glu Glu Xaa Leu Gln Gly Thr Ile
 85 90 95

4982

Leu Asn Pro Lys Ala Trp Asn Leu Leu Xaa His Phe Thr Phe Val Xaa
 100 105 110

Lys Gly Leu Leu Asn Ala Leu Glu Lys Asp Leu Gly Pro Glu Leu Leu
 115 120 125

Ser

<210> 5667

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5667

Pro Ile His Glu Leu Met Pro Glu Asp Arg Ala Ser Thr Pro Arg Thr
 1 5 10 15

Thr Thr Met Thr Phe Thr Cys Xaa Xaa Phe Phe Asp Leu Phe Asn Ala
 20 25 30

Leu Thr Cys Arg Ser Gln Thr Lys Leu Ile Phe Glu Ile Gly Phe Leu
 35 40 45

Arg Asn His Met Phe Leu Tyr Ser Val Leu Gly Ser Ile Leu Gly Gln
 50 55 60

Leu Ala Val Ile Tyr Ile Pro Pro Leu Gln Arg Val Phe Gln Thr Glu
 65 70 75 80

Asn Leu Gly Ala Leu Asp Leu Leu Phe Leu Thr Gly Leu Ala Ser Ser
 85 90 95

Val Phe Ile Leu Ser Glu Leu Leu Lys Leu Cys Glu Lys Tyr Cys Cys
 100 105 110

Ser Pro Lys Arg Val Gln Met His Pro Glu Asp Val
 115 120

4983

<210> 5668

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5668

Val	Ser	Val	Lys	Gln	Phe	Tyr	Phe	Ser	Tyr	Val	Thr	Val	Ala	Gly	Tyr
1				5					10					15	

Asp	Leu	Asn	Phe	Val	Phe	Arg	Pro	Pro	Ala	Arg	Ile	Leu	Cys	Leu	Leu
			20					25					30		

Leu	Tyr	Ser	Arg	Ser	Val	Phe	Leu	Pro	Arg	Leu	Arg	His	Arg	Gly	Pro
		35					40					45			

Gln	Pro
	50

<210> 5669

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5669

Leu	Leu	His	Leu	Ile	Leu	Tyr	Met	Ser	Asn	Ala	Ser	Phe	Leu	Ser	Val
1				5					10					15	

4984

Cys Leu Leu Ala Glu Asn Pro Val Gln Leu Ser Pro Gly Cys His Gly
 20 25 30
 Lys Tyr Asp Lys Glu Xaa Thr Leu Gly Leu Gly Leu Lys Gly Leu Val
 35 40 45
 Ile Gln Lys Thr Arg Glu Gly Cys Thr Cys Arg Val Ile Tyr Xaa Arg
 50 55 60
 Asn Leu Ile Lys Tyr Leu Ala His Arg Ser Tyr Lys Glu Ser Phe Gln
 65 70 75 80
 Arg Gly Pro Leu Ala Thr Ala Gly Phe Phe Val Arg Asn Ile Cys Val
 85 90 95
 Xaa Phe Tyr Pro Arg Glu Gln Asn Pro Arg Lys Gly Ser Phe Ile Ile
 100 105 110
 Tyr Ser His Phe Ser Ser Phe Leu Asn Lys Thr Phe Ser Ser Arg Asn
 115 120 125
 Thr Ala Phe Glu Gly Leu Cys Phe Met Gln Pro Ala Ser Leu Val Asp
 130 135 140
 Leu Phe Thr Arg Ser His Gln Val Ile Xaa Ser Ile Leu Gly Arg Trp
 145 150 155 160
 Arg Lys Gln Thr Asp Thr Val Ser Arg Cys
 165 170

<210> 5670

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5670

Tyr Val Leu Ser Ala Phe Arg Gly Leu Ser Arg Val Ile Asp Arg His
 1 5 10 15

4985

Leu Asn Glu Ala Leu Ser Phe Leu Lys Cys Lys Val Gly Glu Thr Gln
 20 25 30
 Asp Thr Arg Lys Arg Lys Asp Ile Val His Ile Val Val Ala Val Ala
 35 40 45
 Leu Arg Thr Val Leu Ala Arg Asp Arg Leu Gly Ile Xaa Ile Asn Pro
 50 55 60
 Gly His Trp Gly Ser Phe Ser Gly Ser Leu Xaa Leu Ser Leu Pro Gly
 65 70 75 80
 Ser Thr His

<210> 5671

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5671

Val His Phe Ile Ser Thr Phe Tyr Tyr Ile Tyr Leu Ile Ala Gln Val
 1 5 10 15
 Leu Leu Ser Arg Lys Lys Trp Asp Val Ala Asn Thr Ala Leu Leu Ala
 20 25 30
 Cys Arg Gln Cys Cys Pro Val Asn Arg Leu Lys Cys Ile Phe Ile Ser
 35 40 45
 Trp Tyr Ile Asn Leu Arg Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 65 70 75 80
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
 85 90 95
 Gly Gly

4986

<210> 5672

<211> 199

<212> PRT

<213> Homo sapiens

<400> 5672

Val Phe Leu Thr Tyr Ser Gly Gly Asp Ser Val Met Gln Ile Val Met
 1 5 10 15

Phe Asp Arg Gln Ser Ile Phe Ile His Gly Met Lys Ile Ser Leu Gln
 20 25 30

Gln Arg Ile Pro Gly Val Ser Ile Gln Gly Ala Ser Gln Ala Asp Glu
 35 40 45

Leu Trp Gln Lys Leu Glu Ser Tyr Pro Glu Ala Leu Val Met Leu Asp
 50 55 60

Gly Asp Gln Asp Gly Glu Phe Cys Tyr Trp Leu Leu Gln Lys Thr Val
 65 70 75 80

Val Gln Phe Pro Glu Val Lys Val Leu Ile Thr Ala Thr Asp Cys Asn
 85 90 95

Lys Arg Trp Leu Gln Glu Val Ile His Phe Asn Val Leu Ala Ile Val
 100 105 110

Pro Arg Asp Ser Thr Val Glu Thr Phe Ala Leu Ala Val Asn Ser Ala
 115 120 125

Ala Met Gly Met Met Phe Leu Pro Gly Asp Trp Arg Thr Thr Pro Glu
 130 135 140

Lys Asp Ile Lys Asp Leu Lys Ser Leu Ser Ala Arg Gln Arg Glu Ile
 145 150 155 160

Leu Thr Met Leu Ala Ala Gly Glu Ser Asn Lys Glu Ile Gly Arg Ala
 165 170 175

Leu Asn Ile Ser Thr Gly Thr Val Lys Ala His Leu Glu Ser Leu Tyr
 180 185 190

Arg Arg Leu Glu Val Lys Asn
 195

<210> 5673

<211> 192

<212> PRT

<213> Homo sapiens

4987

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5673

Ile	Met	Leu	His	Ala	Glu	Ala	Pro	Ala	Pro	Ala	Arg	Phe	Pro	Ala	Phe
1				5					10					15	

Ser	Met	Gly	His	Gly	Gly	Ala	Phe	Gly	Glu	Gly	Leu	Cys	Gly	Phe	Pro
			20					25					30		

Pro	Lys	Ser	Arg	Leu	Met	Pro	Leu	Ile	Pro	Ser	Gln	Glu	Val	Ala	Glu
	35						40					45			

Gly	Leu	Gly	Ser	Val	Gln	Ala	Pro	Arg	Gly	Gly	Asp	Val	Gln	Val	Lys
	50					55					60				

Gln	Gly	Val	Cys	Arg	Arg	Arg	Gly	Ser	Leu	Pro	Trp	Ala	Gly	Cys	Gln
65					70					75					80

His	Leu	Gly	Val	Pro	Gly	Cys	Gln	Glu	Lys	Phe	Thr	His	Thr	Arg	Ala
				85					90					95	

Leu	Leu	Ala	Lys	Gly	Glu	Ser	Tyr	Asp	Gly	Arg	Ala	Arg	Ala	Leu	Ser
			100					105					110		

Arg	His	Gln	Val	Cys	Ser	Gln	Ser	Ser	Arg	Ser	Ala	Pro	Val	Thr	Trp
	115						120					125			

Asn	Arg	Pro	Ala	Phe	Arg	Gly	Leu	Ser	Phe	Leu	Ile	Cys	Leu	Met	Gly
	130					135					140				

Ile	Ala	Ile	Pro	Thr	Phe	Pro	Val	Leu	Val	Gly	Phe	Ser	Leu	Asp	Ala
145					150					155					160

Gln	Glu	Thr	Ala	Ala	Xaa	Glu	Gly	Leu	Phe	Gly	Xaa	Leu	Phe	His	Val
				165					170					175	

Thr	Pro	Leu	Leu	Pro	Cys	Pro	His	Gly	Ala	Gly	Gly	Ala	Gly	Ala	Trp
			180					185					190		

4988

<210> 5674

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5674

Leu	Cys	Asn	Cys	Ile	Thr	Val	Thr	Asn	Glu	Ile	Leu	Ser	Leu	Leu	Leu
1				5					10					15	

Ser	Ile	Cys	Pro	Lys	Lys	Pro	Pro	Pro	His	Val	Leu	Ser	Gly	Glu	Leu
			20					25					30		

Pro	Xaa	His	Phe	Trp	Xaa	Thr	Ala	Gln	Ile	Asn	Ser
		35				40					

<210> 5675

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5675

Glu	Tyr	Ser	Ser	Leu	Ser	Pro	Arg	Ile	Asp	Ser	Ile	Thr	Gln	Ser	Asn
1				5					10					15	

Ile	Asn	Leu	Asn	Gly	Leu	Ala	Pro	Ser	Phe	Phe	Ser	Lys	Asn	Asn	Gln
			20					25					30		

Leu	Ile	Lys	Lys	Lys	Phe	Glu	Gly	Leu	Asn	Tyr	Phe	Asn	Gly	Cys	Leu
		35					40					45			

Lys	Tyr	Ser	Val	Gln	Phe	Val	Pro	Val	Ser	Ser	Leu	Ser	Val	Trp	Gly
	50					55					60				

Arg	Ile	Lys	Tyr	Cys	Ala	Lys	Leu	Val	Leu	Gly	Tyr	Ile	Leu	Gln	His
65					70					75				80	

Leu	Val	Phe	Tyr	Leu	Thr	Asn	Arg	Ile	Leu	Val	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4989

85

90

<210> 5676

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5676

Ala	Arg	Met	Phe	Thr	Phe	Gly	Arg	Leu	Phe	Gln	Ile	Ile	Thr	Val	Val
1				5					10					15	

Thr	Cys	Leu	Gln	Phe	Ile	Gln	Asp	Cys	Cys	Ile	His	Ser	Arg	Gln	Ile
			20					25					30		

Asn	Ser	Leu	Leu	Glu	Thr	Ser	Ser	Leu	Ser	Arg	Cys	Leu	Glu	Xaa	Pro
		35					40					45			

Asp	Val	Cys
	50	

<210> 5677

<211> 486

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (483)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5677

Gln	Val	Gln	Ile	Arg	Ile	Leu	Asp	Val	Asn	Asp	Asn	Ile	Pro	Val	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4990

1	5	10	15
Glu Asn Lys Val Leu Glu Gly Met Val Glu Glu Asn Gln Val Asn Val	20	25	30
Glu Val Thr Arg Ile Lys Val Phe Asp Ala Asp Glu Ile Gly Ser Asp	35	40	45
Asn Trp Leu Ala Asn Phe Thr Phe Ala Ser Gly Asn Glu Gly Gly Tyr	50	55	60
Phe His Ile Glu Thr Asp Ala Gln Thr Asn Glu Gly Ile Val Thr Leu	65	70	75
Ile Lys Glu Val Asp Tyr Glu Glu Met Lys Asn Leu Asp Phe Ser Val	85	90	95
Ile Val Ala Asn Lys Ala Ala Phe His Lys Ser Ile Arg Ser Lys Tyr	100	105	110
Lys Pro Thr Pro Ile Pro Ile Lys Val Lys Val Lys Asn Val Lys Glu	115	120	125
Gly Ile His Phe Lys Ser Ser Val Ile Ser Ile Tyr Val Ser Glu Ser	130	135	140
Met Asp Arg Ser Ser Lys Gly Gln Ile Ile Gly Asn Phe Gln Ala Phe	145	150	155
Asp Glu Asp Thr Gly Leu Pro Ala His Ala Arg Tyr Val Lys Leu Glu	165	170	175
Asp Arg Asp Asn Trp Ile Ser Val Asp Ser Val Thr Ser Glu Ile Lys	180	185	190
Leu Ala Lys Leu Xaa Asp Phe Glu Ser Arg Xaa Val Gln Asn Gly Thr	195	200	205
Tyr Thr Val Lys Ile Val Ala Ile Ser Glu Asp Tyr Pro Arg Lys Thr	210	215	220
Ile Thr Gly Thr Val Leu Ile Asn Val Glu Asp Ile Asn Asp Asn Cys	225	230	235
Pro Thr Leu Ile Glu Pro Val Gln Thr Ile Cys His Asp Ala Glu Tyr	245	250	255
Val Asn Val Thr Ala Glu Asp Leu Asp Gly His Pro Asn Ser Gly Pro	260	265	270
Phe Ser Phe Ser Val Ile Asp Lys Pro Pro Gly Met Ala Glu Lys Trp			

4991

275	280	285
Lys Ile Ala Arg Gln Glu Ser Thr Ser Val Leu Leu Gln Gln Ser Glu		
290	295	300
Lys Lys Leu Gly Arg Ser Glu Ile Gln Phe Leu Ile Ser Asp Asn Gln		
305	310	315 320
Gly Phe Ser Cys Pro Glu Lys Gln Val Leu Thr Leu Thr Val Cys Glu		
	325 330	335
Cys Leu His Gly Ser Gly Cys Arg Glu Ala Gln His Asp Ser Tyr Val		
	340 345	350
Gly Leu Gly Pro Ala Ala Ile Ala Leu Met Ile Leu Ala Phe Leu Leu		
	355 360	365
Leu Leu Leu Val Pro Leu Leu Leu Leu Met Cys His Cys Gly Lys Gly		
	370 375	380
Ala Lys Gly Phe Thr Pro Ile Pro Gly Thr Ile Glu Met Leu His Pro		
385	390 395	400
Trp Asn Asn Glu Gly Ala Pro Pro Glu Asp Lys Val Val Pro Ser Phe		
	405 410	415
Leu Pro Val Asp Gln Gly Gly Ser Leu Val Gly Arg Asn Gly Val Gly		
	420 425	430
Gly Met Ala Lys Glu Ala Thr Met Lys Gly Ser Ser Ser Ala Ser Ile		
	435 440	445
Val Lys Gly Gln His Glu Met Ser Glu Met Asp Gly Arg Trp Glu Glu		
	450 455	460
His Arg Ser Leu Leu Ser Gly Arg Ala Thr Gln Phe Thr Gly Ala Thr		
465	470 475	480
Gly Ala Xaa His Asp His		
	485	

<210> 5678

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

4992

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5678

Ala	Ile	Val	Pro	Ser	Trp	Asp	Leu	Asp	Lys	Asp	Thr	Ile	Ser	Leu	Leu
1				5					10					15	

Ser	Pro	Val	Leu	Cys	Ile	Phe	Pro	Ser	Pro	Ser	Ser	Gln	Thr	Ser	Leu
			20					25					30		

Leu	Tyr	Val	Phe	Ser	Leu	Ala	Gly	Arg	Met	Thr	Gln	Asn	Thr	Val	Ile
		35					40					45			

Val	Asn	Gly	Val	Ala	Met	Ala	Ser	Arg	Pro	Ser	Gln	Pro	Thr	His	Val
	50					55					60				

Asn	Val	His	Ile	His	Gln	Glu	Ser	Ala	Leu	Thr	Gln	Leu	Leu	Lys	Ala
65					70					75					80

Gly	Gly	Ser	Leu	Lys	Lys	Phe	Leu	Phe	His	Pro	Gly	Asp	Thr	Val	Pro
				85					90					95	

Ser	Thr	Ala	Arg	Ile	Gly	Tyr	Glu	Gln	Leu	Ala	Leu	Gly	Val	Thr	Gln
			100					105					110		

Ile	Leu	Leu	Gly	Val	Val	Ser	Cys	Val	Leu	Gly	Val	Cys	Leu	Ser	Leu
		115					120					125			

Gly	Pro	Trp	Thr	Val	Leu	Xaa	Ala	Ser	Gly	Cys	Ala	Phe	Trp	Ala	Gly
	130					135					140				

Ser	Val	Val	Ile	Ala	Ala	Gly	Ala	Gly	Ala	Ile	Val	His	Glu	Lys	His
145					150					155					160

Pro	Gly	Lys	Leu	Ala	Gly	Tyr	Ile	Ser	Ser	Leu	Leu	Thr	Leu	Xaa	Gly
				165					170					175	

Phe	Ala	Thr	Ala	Met	Ala	Ala	Val	Val	Leu	Cys	Val	Asn	Ser	Phe	Ile
			180					185					190		

Trp	Gln	Thr	Glu	Pro	Phe	Leu	Tyr	Ile	Asp	Thr	Val	Cys	Asp	Arg	Ser
		195					200					205			

Asp	Pro	Val	Phe	Pro	Thr	Thr	Gly	Tyr	Arg	Trp	Met	Arg	Arg	Ser	Gln
	210					215					220				

Glu	Asn	Gln	Trp	Gln	Lys	Glu	Glu	Cys	Arg	Ala	Tyr	Met	Gln	Met	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4993

225 230 235 240
 Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val
 245 250 255
 Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn
 260 265 270
 Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys
 275 280 285
 Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln
 290 295 300
 Thr Ser Thr Ala Ile Val Leu
 305 310

<210> 5679

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5679

Ala Gln Trp Leu Pro Leu Glu Glu Arg Gly Ala Glu Thr Glu Thr Lys
 1 5 10 15
 Val Gln Glu Arg Glu Asn Gly Glu Ser Pro Leu Glu Leu Glu Gln Leu
 20 25 30
 Asp Gln His His Glu Met Lys Glu Thr Asn Glu Gln Lys Leu His Lys
 35 40 45
 Ile Ala Asn Glu Leu Leu Leu Thr Glu Arg Ala Tyr Val Asn Arg Leu
 50 55 60
 Asp Leu Leu Asp Gln Val Phe Tyr Cys Lys Leu Leu Glu Glu Ala Asn
 65 70 75 80
 Arg Gly Ser Phe Xaa Ala Glu Met Val Ile Lys Ser Phe Leu Ile Phe
 85 90 95
 His Gln

4994

<210> 5680

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5680

Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys
1 5 10 15

Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile
20 25 30

Ile Thr Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe
35 40 45

Ser Asn Asn Gln Val Asp Ser Arg Gly Ser
50 55

<210> 5681

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5681

Ser Leu Thr Ser Lys Pro Glu Thr Ser Glu Ile Leu Lys Ala Asn Leu
1 5 10 15

Phe Ser Leu Leu Cys Ile Lys Phe Ile Tyr Leu Lys Cys Tyr Cys Ser
20 25 30

Trp Leu Arg Ile Ile Leu Cys Lys Phe Ser Phe Phe Val Val Cys Leu
35 40 45

Phe Ala Cys Cys Ser Pro
50

<210> 5682

<211> 486

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

4995

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (400)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (406)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5682

Ser	Ser	Thr	Ala	Val	Thr	Xaa	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly
1				5					10					15	

Cys	Arg	Asn	Ser	Ala	Arg	Gly	Tyr	Ile	Gln	Tyr	Gly	Asn	Glu	Glu	Gln
			20					25					30		

Arg	Lys	Gln	Ala	Phe	Glu	Glu	Leu	Arg	Asp	Asp	Leu	Val	Glu	Leu	Ser
		35					40					45			

Lys	Ala	Lys	Tyr	Ser	Arg	Asn	Ile	Val	Lys	Lys	Phe	Leu	Met	Tyr	Gly
	50					55					60				

Ser	Lys	Pro	Gln	Ile	Ala	Glu	Ile	Ile	Arg	Ser	Phe	Lys	Gly	His	Val
65					70					75					80

Arg	Lys	Met	Leu	Arg	His	Ala	Glu	Ala	Ser	Ala	Ile	Val	Glu	Tyr	Ala
			85						90						95

Tyr	Asn	Asp	Lys	Ala	Ile	Leu	Glu	Gln	Arg	Asn	Met	Leu	Thr	Glu	Glu
			100					105					110		

Leu	Tyr	Gly	Asn	Thr	Phe	Gln	Leu	Tyr	Lys	Ser	Ala	Asp	His	Arg	Thr
		115					120					125			

Leu	Asp	Lys	Val	Leu	Glu	Val	Gln	Pro	Glu	Lys	Leu	Glu	Leu	Ile	Met
	130					135					140				

Asp	Glu	Met	Lys	Gln	Ile	Leu	Thr	Pro	Met	Ala	Gln	Lys	Glu	Ala	Val
145					150					155					160

Ile	Lys	His	Ser	Leu	Val	His	Lys	Val	Phe	Leu	Asp	Phe	Phe	Thr	Tyr
				165					170					175	

Ala	Pro	Pro	Lys	Leu	Arg	Ser	Glu	Met	Ile	Glu	Ala	Ile	Arg	Glu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4996

180	185	190
Val Val Tyr Leu Ala His Thr His Asp Gly Ala Arg Val Ala Met His		
195	200	205
Cys Leu Trp His Gly Thr Pro Lys Asp Arg Lys Val Ile Val Lys Thr		
210	215	220
Met Lys Thr Tyr Val Glu Lys Val Ala Asn Gly Gln Tyr Ser His Leu		
225	230	235
Val Leu Leu Ala Ala Phe Asp Cys Ile Asp Asp Thr Lys Leu Val Lys		
	245	250
Gln Ile Ile Ile Ser Glu Ile Ile Ser Ser Leu Pro Ser Ile Val Asn		
	260	265
Asp Lys Tyr Gly Arg Lys Val Leu Leu Tyr Leu Leu Ser Pro Arg Asp		
	275	280
Pro Ala His Thr Val Arg Glu Ile Ile Glu Val Leu Gln Lys Gly Asp		
	290	295
Gly Asn Ala His Ser Lys Lys Asp Thr Glu Val Arg Arg Arg Glu Leu		
305	310	315
Leu Glu Ser Ile Ser Xaa Ala Leu Leu Ser Tyr Leu Gln Glu His Ala		
	325	330
Gln Glu Val Val Leu Asp Lys Ser Ala Cys Val Leu Val Ser Asp Ile		
	340	345
Leu Gly Ser Ala Thr Gly Asp Val Gln Pro Thr Met Asn Ala Ile Ala		
	355	360
Ser Leu Ala Ala Thr Gly Leu His Pro Gly Gly Lys Asp Gly Glu Leu		
	370	375
His Ile Ala Glu His Pro Ala Gly His Leu Val Leu Lys Trp Leu Xaa		
385	390	395
Glu Gln Asp Lys Lys Xaa Lys Glu Asn Gly Arg Glu Gly Cys Phe Ala		
	405	410
Lys Thr Leu Val Glu His Val Gly Met Lys Asn Leu Lys Ser Trp Ala		
	420	425
Ser Val Asn Arg Gly Ala Ile Ile Leu Ser Ser Leu Leu Gln Ser Cys		
	435	440
Asp Leu Glu Val Ala Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile		

4997

450 455 460
 Pro Thr Leu Glu Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu
 465 470 475 480

 Leu Glu Lys Leu Ser Thr
 485

 <210> 5683
 <211> 213
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 5683
 Val Leu Asp Val Ala Ala Gly Met Ile Lys Pro Gly Val Thr Thr Glu
 1 5 10 15

 Glu Ile Asp His Ala Val His Leu Ala Cys Ile Ala Arg Asn Cys Tyr
 20 25 30

 Pro Ser Pro Leu Asn Tyr Tyr Asn Phe Pro Lys Ser Cys Cys Thr Ser
 35 40 45

 Val Asn Glu Val Ile Cys His Gly Ile Pro Asp Arg Arg Pro Leu Gln
 50 55 60

 Glu Gly Asp Ile Val Asn Val Asp Ile Thr Leu Tyr Arg Asn Gly Tyr
 65 70 75 80

 His Gly Asp Leu Asn Glu Thr Phe Phe Xaa Gly Glu Val Asp Asp Gly
 85 90 95

 Ala Arg Lys Leu Val Gln Thr Thr Tyr Glu Cys Leu Met Gln Ala Ile
 100 105 110

 Asp Ala Val Lys Pro Gly Val Arg Tyr Arg Glu Leu Gly Asn Ile Ile
 115 120 125

 Gln Lys His Ala Gln Ala Asn Gly Phe Xaa Val Val Arg Ser Tyr Cys

4998

130 135 140
 Gly His Gly Asn Pro Gln Ala Phe Ser Tyr Ser Ser Gln Cys Thr Pro
 145 150 155 160
 Leu Cys Leu Lys Ile Lys Gln Leu Gly Val Met Glu Val Gly Pro Cys
 165 170 175
 Ile Tyr Asn Trp Ser Gln Trp Phe Val Glu Gly Gly Trp Gln Asp Gly
 180 185 190
 Asn Leu Gly Gln Met Val Gly Thr Ala Val Asp Lys Arg Arg Glu Ser
 195 200 205
 Gly Leu Leu Gln Phe
 210

<210> 5684

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5684

Thr His Ala Ser Ala His Thr Thr Asn Pro Glu Gln Thr Leu Pro Gly
 1 5 10 15

Thr Asn Leu Thr Gly Phe Leu Ser Pro Val Asp Asn His Met Arg Asn
 20 25 30

4999

Leu Thr Ser Gln Asp Leu Xaa Tyr Asp Leu Asp Ile Asn Ile Phe Asp
 35 40 45

Glu Ile Asn Leu Met Ser Leu Ala Thr Glu Asp Asn Phe Asp Pro Ile
 50 55 60

Asp Val Ser Gln Leu Phe Asp Glu Pro Asp Ser Asp Ser Gly Leu Ser
 65 70 75 80

Leu Asp Ser Ser His Asn Asn Thr Ser Val Ile Lys Ser Asn Ser Ser
 85 90 95

His Ser Val Cys Asp Glu Gly Ala Ile Gly Tyr Cys Thr Asp His Glu
 100 105 110

Ser Ser Ser His His Asp Leu Glu Gly Ala Val Gly Gly Tyr Tyr Pro
 115 120 125

Glu Pro Ser Lys Leu Cys His Leu Asp Gln Ser Asp Ser Asp Phe His
 130 135 140

Gly Asp Leu Thr Phe Gln His Val Phe His Asn His Thr Tyr His Leu
 145 150 155 160

Gln Pro Thr Ala Pro Glu Ser Thr Ser Glu Pro Phe Pro Trp Pro Gly
 165 170 175

Lys Ser Gln Lys Ile Arg Ser Arg Tyr Leu Glu Asp Thr Asp Arg Asn
 180 185 190

Leu Ser Arg Asp Glu Gln Arg Ala Lys Ala Leu His Ile Pro Phe Ser
 195 200 205

Val Asp Glu Ile Val Gly Met Pro Val Asp Ser Phe Asn Ser Met Leu
 210 215 220

Ser Arg Tyr Tyr Leu Thr Asp Leu Gln Val Ser Leu Ile Arg Asp Ile
 225 230 235 240

Arg Arg Arg Gly Lys Asn Lys Val Ala Ala Xaa Asn Cys Arg Lys Xaa
 245 250 255

Xaa Leu Asp Ile Ile Leu Asn Leu Glu Asp Asp Gly Met Val Thr Trp
 260 265 270

Pro Ala Lys Lys Gly Asn Pro
 275

5000

<211> 234

<212> PRT

<213> Homo sapiens

<400> 5685

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Lys Asn Leu Thr Glu Asn Gln Glu Ala Leu Ala Lys Glu Met Arg Ala
 1              5              10              15

Asp Ala Asp Ala Tyr Arg Arg Lys Val Asp Leu Glu Glu His Met Phe
      20              25              30

His Lys Leu Ile Glu Ala Gly Glu Thr Gln Ser Gln Lys Thr Gln Lys
      35              40              45

Val Ile Lys Glu Asn Leu Ala Lys Ala Glu Gln Ala Cys Leu Asn Thr
      50              55              60

Asp Trp Gln Ile Gln Ser Leu His Lys Gln Lys Cys Asp Asp Leu Gln
      65              70              75              80

Arg Asn Lys Cys Tyr Gln Glu Val Ala Lys Leu Leu Arg Glu Asn Arg
      85              90              95

Arg Lys Glu Ile Glu Ile Ile Asn Ala Met Val Glu Glu Glu Ala Lys
      100              105              110

Lys Trp Lys Glu Ala Glu Gly Lys Glu Phe Arg Leu Arg Ser Ala Lys
      115              120              125

Lys Ala Ser Ala Leu Ser Asp Ala Ser Arg Lys Trp Phe Leu Lys Gln
      130              135              140

Glu Ile Asn Ala Ala Val Glu His Ala Glu Asn Pro Cys His Lys Glu
      145              150              155              160

Glu Pro Arg Phe Gln Asn Glu Gln Asp Ser Ser Cys Leu Pro Arg Thr
      165              170              175

Ser Gln Leu Asn Asp Ser Ser Glu Met Asp Pro Ser Thr Gln Ile Ser
      180              185              190

Leu Asn Arg Arg Ala Val Glu Trp Asp Thr Thr Gly Gln Asn Leu Ile
      195              200              205

Lys Lys Val Arg Asn Leu Arg Gln Arg Leu Thr Ala Arg Ala Arg His
      210              215              220

Arg Cys Gln Thr Pro His Leu Leu Ala Ala
      225              230

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5001

<210> 5686

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5686

Glu	Ile	Lys	Phe	Cys	Phe	Tyr	Leu	Gly	Thr	Arg	Ala	Leu	Gln	Asp	Leu
1				5					10					15	

Ile	Pro	Ala	Tyr	Leu	Ser	Ser	Leu	Asp	Ser	Leu	Tyr	Ser	Ser	Ile	Trp
			20					25					30		

Lys	Cys	Gly	Pro	Trp	Thr	Glu	Ala	Leu	Pro	Asn	Asn	Ala	Glu	His	Leu
		35					40					45			

Val	Leu	Pro	Phe	Ala	Arg	Met	Val	Leu	Met	Val	Pro	Lys	Ile	Thr	Ala
	50					55					60				

Ser	Xaa	Pro	Lys	Phe	Arg	Thr	Gln	Ile	Thr	Leu	Trp	Arg	Arg	Pro	Gln
65					70					75				80	

Pro	Leu	Ala	Xaa	Ala	Phe	Lys	Ala	Leu	Arg	Asp	Leu	Asp	Thr	Arg	Leu
				85					90					95	

Ala	Leu	Ile	Tyr	Ile	Tyr	Phe	Lys	Ser	Ile	Ser	Ser	Leu	Ser	His	Ala
		100						105					110		

His

<210> 5687

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5687

Leu	Asp	Ile	Lys	Thr	Ser	Tyr	Ser	Leu	Asn	Pro	Lys	Ala	Lys	Leu	Met
1				5					10					15	

5002

Ser Arg Ala Asn Gln Ser Ser Trp Gly Gln Asn Arg Thr Lys Thr Tyr
 20 25 30

Leu Met Gln Gly Ile Glu Ala Arg Pro Lys Thr Gly Gln Pro Asn Arg
 35 40 45

Met Gly His Leu Pro Pro Leu Met Pro Ala Cys Pro Ser Val Ile Ile
 50 55 60

Asn Ser Ala Pro Phe His Ser Pro Lys Ser Pro Val Gln Thr
 65 70 75

<210> 5688

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5688

Leu Ser Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Ser Thr Ala Val Ala
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Ala Ser Asn Leu Tyr Phe Tyr Leu Leu Cys Ile
 35 40

<210> 5689

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5689

Thr Thr Tyr Cys Phe Pro Leu Phe Gln Gly Asp Ala Val Asp Tyr Gln
 1 5 10 15

5003

Lys Gln Leu Lys Gln Met Ile Lys Asp Leu Ala Lys Glu Lys Asp Lys
 20 25 30
 Thr Glu Lys Glu Leu Pro Lys Met Ser Gln Val Trp Thr Phe Phe Ser
 35 40 45
 Ala Glu Asn
 50

<210> 5690
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 5690
 Glu Ala Leu Val Asp Phe Leu Tyr Trp Tyr Phe Arg Ser Leu Leu Ser
 1 5 10 15
 Phe Leu Thr Glu Val Gly Ala Asn Glu Leu Ser Ile Leu Ser Thr Trp
 20 25 30
 Leu Ile Lys
 35

<210> 5691
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 5691
 Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
 1 5 10 15
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Tyr Lys Leu Ser
 20 25 30

<210> 5692
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 5692

5004

Gly Thr Leu Leu Lys Phe Leu Cys Lys Leu Gly Leu Phe Phe Ser Leu
 1 5 10 15
 Ser Cys Val Ser Arg Thr Val Gly Val Pro Gly Leu Leu Ser Cys Trp
 20 25 30
 Val Gln Ala Ser Arg Ile Leu Arg Arg Cys Glu Glu Glu Val Arg Lys
 35 40 45
 Ile Gly Gly Asn Arg Lys Glu Lys Glu Ile Trp Pro Arg Phe Trp Gly
 50 55 60
 Glu Lys Val Trp Gly Lys Ser Lys Gly Asn
 65 70

<210> 5693
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 5693
 Glu Asn Ala Cys Lys Ala Leu Gly Ile Val His Asp Val Asn Thr Gln
 1 5 10 15
 Met Leu Leu Lys Ser Ile Asn Val Asn Tyr Phe Leu Ala His Phe Ser
 20 25 30
 Gly Leu Ile Ser Pro Val Lys Met Ile His Ser Ile Leu Phe Asn Gly
 35 40 45
 Phe Met
 50

<210> 5694
 <211> 147
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring L-amino acids

5005

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5694

Gly	Leu	Gly	Cys	Ala	Leu	Ala	Gln	Val	Leu	Cys	Gly	Asp	Ala	Arg	Gln
1				5					10					15	

His	Ile	Leu	Leu	Arg	Asp	Asp	Thr	Leu	Ser	Gly	Gln	His	Arg	Pro	Val
			20					25					30		

Thr	Ile	Xaa	Ser	Leu	Ala	Thr	Ser	Leu	Ser	Pro	Ala	Ser	Pro	Ser	Leu
		35					40					45			

Asp	Thr	Arg	Pro	Gln	Thr	Pro	Gly	Ser	Gly	Arg	Gly	Gly	Trp	Thr	Ser
	50					55					60				

Leu	His	Thr	Pro	Ala	Gly	Arg	Gly	Gln	Val	Pro	Arg	Ser	Pro	Met	Trp
65					70					75					80

Arg	Ala	Gly	Pro	Gly	Ala	Ala	Gln	Ala	Gly	Gly	Xaa	Asn	Trp	Gly	Leu
				85					90					95	

Arg	Val	Leu	Arg	Arg	Arg	Val	Lys	Ile	Ile	Lys	Gly	Ala	Thr	Glu	Ser
			100					105					110		

Lys	Arg	Arg	Glu	Gly	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro
			115				120					125			

Leu	Val	Leu	Glu	Arg	Xaa	Pro	Pro	Arg	Trp	Ser	Xaa	Ser	Phe	Val	Pro
			130			135					140				

Leu	Val	Arg
145		

<210> 5695

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5695

Val	Phe	Ser	Gly	Met	His	Arg	Phe	Ile	Ile	Phe	Ser	Thr	Leu	Lys	Met
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5006

1	5	10	15
Arg Ala Phe Lys Ser Val His Tyr Leu Tyr Ser Pro Val Leu Ser Ile			
20	25	30	
Val Tyr Ile Ile Tyr Met Ile Lys Glu Asn Met His Asn Gln Thr Ser			
35	40	45	
Leu Asn Ile Val Phe Ala Pro Asp Glu Gln			
50	55		

<210> 5696

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5696

Thr Arg Cys Lys Arg Phe Val Asn Ser Leu Ala Pro Lys Leu Ser His			
1	5	10	15
Trp Arg Arg Asp Phe Xaa His Tyr Ala Glu Ser Gly Trp Val Glu Phe			
20	25	30	
Arg Thr Ala Thr Leu Val Ala Glu Glu Leu His Gln Leu Gly Tyr Ser			
35	40	45	
Leu Ala Leu Gly Arg Glu			
50			

<210> 5697

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5697

Gln Gln Phe Gly Arg Asp Gly Ser Pro Ala Ala Tyr Val Gly Gly Pro			
1	5	10	15
Ser Val Gly Leu Arg Val Arg Val Ala Met Ala Val Asp Ile Thr Leu			
20	25	30	
Leu Phe Arg Ala Ser Val Lys Thr Val Lys Thr Arg Asn Lys Arg Trp			

5007

35

40

45

Glu Trp Arg Trp Ala Thr Gly Ser Met
 50 55

<210> 5698

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5698

Gln Lys Ser Pro Ser Val Glu Asp Gly Leu Lys Gly Arg Asp Gln Thr
 1 5 10 15

Xaa Met Asp Thr Asn Pro Lys Thr Glu Asp Ala Pro Cys Leu Pro His
 20 25 30

Glu Ala Tyr Leu Ser Ala Cys Val Ser Met Ile Ala Gly Ile Glu Leu
 35 40 45

Leu Gly Thr Ser Arg Met Ile Tyr Leu Ala Ile Cys Phe Leu His Ser
 50 55 60

Lys Asn Gln Asn Gly Pro Val Ile Pro Asn Arg Glu Asn Arg Ala Asn
 65 70 75 80

Ser Leu Phe Ser Pro Leu Pro Ser Glu Ala Ser Phe
 85 90

<210> 5699

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5699

Gly Arg Gly Trp Gly Trp Glu Gly Thr Val Leu Pro Gly Glu Ala Glu
 1 5 10 15

5008

Glu Asp Arg Val Gly Leu Arg Ala Arg Arg Arg Pro Ser Arg Leu Leu
 20 25 30
 Ala Pro Leu Ala Trp Cys Pro Ala Pro Gly Arg Glu Ala Ala Gly Leu
 35 40 45
 Asp Arg Ala Gly Leu Pro Gly Gly Ala Arg Ala Leu Ala Ala Gly Arg
 50 55 60
 Pro Leu Leu Ser Ala Met Ala Gly Leu His Pro Trp Val Ile Phe Ser
 65 70 75 80
 Gly Pro Leu Trp Pro Leu Leu Thr Pro Arg Glu Gln Thr Thr Arg Thr
 85 90 95
 Thr Gln Glu Gln Ile Lys Ser Arg Pro Gln Pro Xaa Arg Glu Arg Ala
 100 105 110
 Ser Ile Leu Phe Ala Pro Arg Val Ala Val
 115 120

<210> 5700

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5700

Ala Glu Leu Thr Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Thr Leu
 1 5 10 15

Thr Pro Ser Ser Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr
 20 25 30

Pro Ala Lys Ala Glu Xaa Ser Xaa His Pro Asn Ser Asp Phe Phe Gly
 35 40 45

Gln Glu Gly Glu Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His
 50 55 60

5009

Gly Ser Gln Lys Glu Arg Asn Leu Ile Thr Val Thr Gly Ser Ser Phe
 65 70 75 80

Leu Val

<210> 5701

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5701

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Thr Gly Xaa Asn Asn
 1 5 10 15

Thr Lys Ala Phe Glu Val Pro Ala Xaa Ala Asn Phe Leu Asn Ser Asn
 20 25 30

Asp Val Phe Val Leu Lys Thr Gln Ser Cys Cys Tyr Leu Trp Cys Gly
 35 40 45

Lys Gly Cys Ser Gly Asp Glu Arg Glu Met Ala Lys Met Val Ala Asp
 50 55 60

Thr Ile Ser Arg Thr Glu Lys Gln Val Val Val Glu Gly Gln Glu Pro
 65 70 75 80

Ala Asn Phe Trp Met Ala Leu Gly Gly Lys Ala Pro Tyr Ala Asn Thr
 85 90 95

Lys Arg Leu Gln Glu Glu Asn Leu Val Ile Thr Pro Arg Leu Phe Glu
 100 105 110

Cys Ser Asn Lys Thr Gly Arg Phe Leu Ala Thr Glu Ile Pro Asp Phe
 115 120 125

Asn Gln Asp Asp Leu Glu Glu Asp Asp Val Phe Leu Leu Asp Val Trp
 130 135 140

5010

Asp Gln Val Phe Phe Trp Ile Gly Lys His Ala Asn Glu Glu Glu Lys
 145 150 155 160
 Lys Ala Ala Ala Thr Thr Ala Gln Glu Tyr Leu Lys Thr His Pro Ser
 165 170 175
 Gly Arg Asp Pro Glu Thr Pro Ile Ile Val Val Lys Gln Gly His Glu
 180 185 190
 Pro Pro Thr Phe Thr Gly Trp Phe Leu Ala Trp Asp Pro Phe Lys Trp
 195 200 205
 Ser Asn Thr Lys Ser Tyr Glu Asp Leu Lys Ala Glu Leu Gly Asn Ser
 210 215 220
 Arg Asp Trp Ser Gln Ile Thr Ala Glu Val Thr Ser Pro Lys Val Asp
 225 230 235 240
 Val Phe Asn Ala Asn Ser Asn Leu Ser Ser Gly Pro Leu Pro Ile Phe
 245 250 255
 Pro Leu Glu Gln Leu Val Asn Lys Pro Val Glu Glu Leu Pro Glu Gly
 260 265 270
 Val Asp Pro Ser Arg Lys Glu Glu His Leu Ser Ile Glu Asp Phe Thr
 275 280 285
 Gln Ala Phe Gly Met Thr Pro Ala Ala Phe Ser Ala Leu Pro Arg Trp
 290 295 300
 Lys Gln Gln Asn Leu Lys Lys Glu Lys Gly Leu Phe
 305 310 315

<210> 5702

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

5011

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5702

Gly Lys Lys Glu Glu Asn Asn Pro Val Ser Leu Glu Val Gly Val Trp
 1 5 10 15

Val Gly Thr Gly Asp Pro Gly Val Val Met Met Lys Thr Arg Ala Gly
 20 25 30

Phe Gly Gly Arg Leu Arg Leu Phe Arg Ser Leu Leu Ser Pro Pro Pro
 35 40 45

Ser Arg Ser Leu Pro Pro Pro Pro His Xaa Ser Ala Gly Lys Ala Ala
 50 55 60

Cys Ala Ala Pro Gly Gly Glu Met Val Asp Ala His Glu Leu Cys Met
 65 70 75 80

Trp Phe Leu Xaa Xaa Leu Ser Val Leu Gly Pro Val Phe Gly Gly Thr
 85 90 95

Pro Lys Gly

<210> 5703

<211> 292

<212> PRT

<213> Homo sapiens

<400> 5703

Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Leu Gln Leu Leu Ser Arg
 1 5 10 15

Leu Cys Gly Asp His Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Ala
 20 25 30

Gly Gln Glu Glu Pro Gly Thr Pro Pro Ser Ser Pro Leu Ser Ala Glu
 35 40 45

Gln Leu Asp Arg Ile Gln Arg Asn Lys Ala Ala Ala Leu Leu Arg Leu
 50 55 60

Ala Ala Arg Asn Val Pro Val Gly Phe Gly Glu Ser Trp Lys Lys His
 65 70 75 80

Leu Ser Gly Glu Phe Gly Lys Pro Tyr Phe Ile Lys Leu Met Gly Phe

85								90				95			
Val	Ala	Glu	Glu	Arg	Lys	His	Tyr	Thr	Val	Tyr	Pro	Pro	Pro	His	Gln
100								105				110			
Val	Phe	Thr	Trp	Thr	Gln	Met	Cys	Asp	Ile	Lys	Asp	Val	Lys	Val	Val
115								120				125			
Ile	Leu	Gly	Gln	Asp	Pro	Tyr	His	Gly	Pro	Asn	Gln	Ala	His	Gly	Leu
130								135				140			
Cys	Phe	Ser	Val	Gln	Arg	Pro	Val	Pro	Pro	Pro	Pro	Ser	Leu	Glu	Asn
145								150				155			
Ile	Tyr	Lys	Glu	Leu	Ser	Thr	Asp	Ile	Glu	Asp	Phe	Val	His	Pro	Gly
				165								170			
His	Gly	Asp	Leu	Ser	Gly	Trp	Ala	Lys	Gln	Gly	Val	Leu	Leu	Leu	Asn
				180								185			
Ala	Val	Leu	Thr	Val	Arg	Ala	His	Gln	Ala	Asn	Ser	His	Lys	Glu	Arg
				195								200			
Gly	Trp	Glu	Gln	Phe	Thr	Asp	Ala	Val	Val	Ser	Trp	Leu	Asn	Gln	Asn
				210								215			
Ser	Asn	Gly	Leu	Val	Phe	Leu	Leu	Trp	Gly	Ser	Tyr	Ala	Gln	Lys	Lys
				225								230			
Gly	Ser	Ala	Ile	Asp	Arg	Lys	Arg	His	His	Val	Leu	Gln	Thr	Ala	His
				245								250			
Pro	Ser	Pro	Leu	Ser	Val	Tyr	Arg	Gly	Phe	Phe	Gly	Cys	Arg	His	Phe
				260								265			
Ser	Lys	Thr	Asn	Glu	Leu	Leu	Gln	Lys	Ser	Gly	Lys	Lys	Pro	Ile	Asp
				275								280			
Trp	Lys	Glu	Leu												
				290											

<211> 103

<213> Home

<213> Homo sapiens

<400> 5704

Phe Leu Arg Cys Val Asp Leu Asp Gly Arg Cys Asp Met Leu Val Phe
1 5 10 15

5013

Leu Thr Cys Ile Tyr Leu Arg His Cys Tyr Arg Asp Thr Val Val Thr
 20 25 30
 Phe Trp Gly Thr Val Phe Gly Glu Arg Gly Val His Leu Asp Leu Cys
 35 40 45
 Gly Thr Val Gln Ile Val Met Trp Leu His Arg Lys Pro Cys Ala Lys
 50 55 60
 Asn Lys Leu His Leu Lys Asn Ile Lys Asn Leu Arg Phe Met Cys Phe
 65 70 75 80
 Leu Ser Phe Ser Leu Arg Lys Gln Lys Ser Ser Gly Leu Arg Tyr Leu
 85 90 95
 Thr Leu His Val Lys Thr Leu
 100

<210> 5705

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5705

Ala Ser Met Ala Thr Ala Ala Thr Glu Glu Pro Phe Pro Phe His Gly
 1 5 10 15

Leu Leu Pro Lys Lys Glu Thr Gly Ala Ala Ser Phe Leu Cys Arg Tyr

5014

20	25	30
Pro Glu Tyr Asp Gly Arg Gly Val Leu Ile Ala Val Leu Asp Thr Gly		
35	40	45
Val Asp Pro Gly Ala Pro Gly Met Gln Val Thr Thr Asp Gly Lys Pro		
50	55	60
Lys Ile Val Asp Ile Ile Asp Thr Thr Gly Ser Gly Asp Val Asn Thr		
65	70	75
Ala Thr Glu Val Glu Pro Lys Asp Gly Glu Ile Val Gly Leu Ser Gly		
85	90	95
Arg Val Leu Lys Ile Pro Ala Ser Trp Thr Asn Pro Ser Gly Lys Tyr		
100	105	110
His Ile Gly Ile Lys Asn Gly Tyr Asp Phe Tyr Pro Lys Ala Leu Lys		
115	120	125
Glu Arg Xaa Gln Lys Glu Arg Lys Glu Lys Ile Trp Asp Pro Val His		
130	135	140
Arg Xaa Ala Leu Ala Glu Ala Cys Arg Xaa Gln Glu Xaa Phe Asp Val		
145	150	155
Ala Asn Asn Gly Ser Ser Gln Ala Asn Lys Leu Ile Lys		
165	170	

<210> 5706

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5706

Thr Leu Val Ala Glu Ala Thr Met Asp Leu Leu Leu Gly Asp Ser Trp		
1	5	10
		15
Gly Ser Pro Arg Pro Pro Arg Ala Glu Arg Gly Asp Glu Glu Phe Gly		
20	25	30
Thr Val Gly Glu Glu Met Gly Arg Asp Gly Ile Ser Gly Ser Gln Ser		
35	40	45
Gly Trp Asp Thr His Ala Gln Leu Leu His Trp Trp Gly Val Gly His		
50	55	60
Thr Leu Phe Leu Thr Gly His Asp Leu Gln Glu Glu Lys		
65	70	75

5015

<210> 5707

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5707

Ile Gln His Leu Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val
1 5 10 15

Trp Asn Ser Leu Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg
20 25 30

Phe Ser Leu Cys Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp
35 40 45

Val Arg Thr Ser Ile
50

<210> 5708

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5708

Gln Pro Gln Cys Pro Ala Ser Leu Thr Ser Ser Phe Leu Cys Pro Leu
1 5 10 15

Cys Gly Ser Leu Leu Leu Val Ser Ala Phe Ser Met Leu Arg Thr Lys
20 25 30

Ser Pro Ile His Cys Leu Cys Ser Arg Lys Leu Gln Lys Asn Lys Glu
35 40 45

Pro Asn Tyr Gln Asn His Ile Lys Ser Pro Leu Phe Cys Leu Gly Ile
50 55 60

<210> 5709

<211> 39

<212> PRT

<213> Homo sapiens

5016

<400> 5709

Ala Ala Phe Phe Leu Leu Arg Leu Ser Leu Phe Val Leu Leu Pro Lys
 1 5 10 15

Arg Gln Leu Pro Glu Phe Gly Cys Leu Asn Tyr Asn Leu Cys Arg Asn
 20 25 30

Ser Ser Val Asn Thr Phe Lys
 35

<210> 5710

<211> 112

<212> PRT

<213> Homo sapiens

<400> 5710

Gln Leu Gln Leu Phe Cys Leu Gly Phe Gln Leu Phe Leu Val Arg Val
 1 5 10 15

Cys Ser Leu Met Ile Trp Ile Tyr Phe Ala Phe Ile Phe Gln Arg Leu
 20 25 30

His Leu Ile Pro Gly Lys Ser Ser Ala Arg Gln Val Ser Gly Phe Ser
 35 40 45

Leu Leu Ser Phe Asn Pro Ser Asn Thr Ile Phe Val Lys Leu Asp Trp
 50 55 60

Trp Cys Phe Ile Gln Leu Ile Tyr Ser Ala Tyr Leu Phe Glu Lys Arg
 65 70 75 80

Leu Leu Glu Ile Asp Asp Val Phe Val Pro Val Ile Leu Lys Val Val
 85 90 95

Gly Ala Arg Ile Glu Phe His Ser Gly Ile Gly Phe Gly Ser Gly Leu
 100 105 110

<210> 5711

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5711

Trp Val Met Glu Tyr Asn Leu Glu Lys Lys Arg Asn Lys Arg Asp Cys

5017

1	5	10	15
Val Ser Pro Cys Cys Pro Gly Trp Ser Arg Thr Ser Glu Leu Lys Gln			
	20	25	30
Ser Thr Leu Leu Ser Leu Gln Lys Cys Trp Asp Tyr Arg His Glu Thr			
	35	40	45
Pro Ser Pro Ala Ile Arg Phe Leu Phe Tyr Ile Tyr Met Lys			
	50	55	60

<210> 5712

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5712

Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro			
1	5	10	15
Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser			
	20	25	30
Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala			
	35	40	45
Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu			
	50	55	60

5018

Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala
 65 70 75 80
 Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro
 85 90 95
 Gly Glu Leu Leu Xaa Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala
 100 105 110
 Xaa His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser
 115 120 125
 Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser
 130 135 140
 Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His
 145 150 155 160
 Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Xaa Asp Gly Pro
 165 170 175
 Leu Val Cys Ala Leu Glu Gln Glu Pro Lys Leu Arg Leu Leu Arg Xaa
 180 185 190
 His Leu

<210> 5713

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5713

Arg Trp Ala Thr Tyr Gly Arg Thr Gly Gly Leu Pro Asn Val Gly Lys

5019

1	5	10	15
Ser Ser Thr Ile Asn Xaa Ile Met Gly Asn Lys Lys Val Ser Val Ser	20	25	30
Ala Thr Pro Gly His Thr Lys His Phe Gln Thr Leu Tyr Val Xaa Pro	35	40	45
Gly Leu Cys Leu Cys Asp Cys Pro Gly Leu Val Met Pro Ser Phe Val	50	55	60
Ser Thr Lys Ala Glu Met Thr Cys Ser Gly Ile Leu Pro Ile Asp Gln	65	70	75
Met Arg Asp His Val Pro Pro Val Ser Leu Val Cys Gln Asn Ile Pro	85	90	95
Arg His Val Leu Xaa Ala Thr Tyr Gly Ile Asn Ile Ile Thr Pro Arg	100	105	110
Glu Asp Glu Asp Pro His Arg Pro Pro Thr Ser Glu Glu Leu Leu Thr	115	120	125
Ala Tyr Gly Tyr Met Arg Gly Phe Met Thr Ala His Gly Gln Pro Asp	130	135	140
Gln Pro Arg Ser Ala Arg Tyr Ile Leu Lys Asp Tyr Val Ser Gly Lys	145	150	155
Leu Leu Tyr Cys His Pro Pro Pro Gly Arg Asp Pro Val Thr Phe Gln	165	170	175
His Gln His Gln Arg Leu Leu Glu Asn Lys Met Asn Ser Asp Glu Ile	180	185	190
Lys Met Gln Leu Gly Arg Asn Lys Lys Ala Lys Gln Ile Glu Asn Ile	195	200	205
Val Asp Lys Thr Phe Phe His Gln Glu Asn Val Arg Ala Leu Thr Lys	210	215	220
Gly Val Gln Ala Val Met Gly Tyr Lys Pro Gly Ser Gly Val Val Thr	225	230	235
Ala Ser Thr Ala Ser Ser Glu Asn Gly Ala Gly Lys Pro Trp Lys Lys	245	250	255
His Gly Asn Arg Asn Lys Lys Glu Lys Ser Arg Arg Leu Tyr Lys His	260	265	270
Leu Asp Met			

5020

275

<210> 5714

<211> 94

<212> PRT

<213> Homo sapiens

<400> 5714

His Glu Leu Glu His Thr Leu Val Met Ala Gly Pro Asn Ser Lys Arg
 1 5 10 15

Gln Thr Gln Gly Val His Val Pro Arg Met Leu Gln Pro Ala Leu Gly
 20 25 30

Pro Arg Val Ser His Glu Asp Trp Pro Pro Leu Cys Thr Gly Ala Arg
 35 40 45

Gly Gly Gln Val Pro Val Leu Ala Arg Leu Leu Ala Ala Val Pro Thr
 50 55 60

Glu Thr Thr Ala Leu Leu Cys Phe Pro Arg Arg Gly Ala Trp Leu Leu
 65 70 75 80

Ala Val Arg Ala Gly Leu Phe Gln Lys Val Gly Pro Cys Pro
 85 90

<210> 5715

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5715

Gly Gln Val Ala Ala Leu Ser Pro Arg Val Val Pro Gly Arg Leu Arg
 1 5 10 15

Ser Ser Pro Lys Arg Gly Cys Ser Ser Gly Lys Gln Val Asn Ser Trp
 20 25 30

Tyr Phe Thr Phe Leu Gly Asn Thr Xaa Asn Glu Asp Leu Gln Leu
 35 40 45

5021

<210> 5716

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5716

Pro Lys Thr Val Ser Lys Met His Ile Lys Ser Ile Ile Leu Glu Gly
1 5 10 15

Phe Lys Ser Tyr Ala Gln Arg Thr Glu Val Asn Gly Phe Asp Pro Leu
20 25 30

Phe Asn Ala Ile Thr Gly Leu Asn Gly Ser Gly Lys Ser Asn Ile Leu
35 40 45

Asp Ser Ile Cys Phe Leu Leu Gly Ile Ser Asn Leu Ser Gln Val Arg
50 55 60

Ala Ser Lys Phe Thr Arg Phe
65 70

<210> 5717

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5717

Pro Thr Tyr Gly Cys Trp Asp Asn Ser Pro Ser Arg Met Tyr Cys Cys
1 5 10 15

Ser Ala Gln Asp Ser Lys Met Asp Tyr Lys Arg Arg Phe Leu Leu Gly
20 25 30

Gly Ser Lys Gln Lys Val Gln Gln His Ser Asn Thr Arg Cys Leu Ser
35 40 45

Trp Ala Glu His
50

<210> 5718

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5022

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5718

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Phe Gly Thr Lys Glu Thr Val Asn Lys Asp Ile Cys Glu Lys Gly Thr
 1           5           10           15

Ile Gln Gln Met Ile Gly Ile Phe Lys Asn Ile Ile Ser Lys Pro Asn
          20           25           30

Glu Lys Glu Glu Ala Ile Val Leu Glu Ile Gln Ser Asp Ile Leu Leu
          35           40           45

Ile Leu Ser Gly Xaa Cys Glu Asn His Ile Gln Arg Lys Glu Ile Phe
          50           55           60

Gly Thr Glu Gly Val Asp Ile Val Leu His Val Met Lys Thr Asp Pro
          65           70           75           80

Arg Lys Leu Gln Ser Gly Leu Gly Tyr Asn Val Leu Leu Phe Ser Thr
          85           90           95

Leu Asp Ser Ile Trp Cys Cys Ile Leu Gly Cys Tyr Pro Ser Glu Asp
          100          105          110

Tyr Phe Leu Glu Lys Glu Gly Ile Phe Leu Leu Leu Asp Leu Leu Ala
          115          120          125

Leu Asn Gln Lys Asn Ser Val Ile
          130          135

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<210> 5719

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5719

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Lys Ser Leu Gly Glu Lys Lys Ser His Thr Val Phe Leu Ala Ile Arg
 1           5           10           15

Ile Met Lys Thr Asn Phe Gly Glu Cys Glu Gln Leu Arg Gln Thr Gly
          20           25           30

His Arg Leu Gln Gly Leu Thr Ser Leu Thr Val Thr Asp Asn Leu Gly
          35           40           45

Met Asp Pro Thr Ala Asp Val Ser Lys Gly His Arg Gly Glu Leu Val
          50           55           60

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5023

Thr Ser Asn
65

<210> 5720

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5720

Leu Ile Arg Xaa Gln Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu
1 5 10 15

Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Leu Leu
20 25 30

Gln Lys Gly Tyr Ile Ile Leu Ser Leu Val Ile Gln Arg Tyr Ser
35 40 45

<210> 5721

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5721

Val Leu Leu Asn Trp Ile Ile Gln Tyr Tyr Gly Tyr Asn Val Ile Gln
1 5 10 15

Tyr Tyr Gly Gly Ile Cys Val Ile Ile Xaa Ile Asn Asn Thr Gly Glu
20 25 30

Ile Ser Gly Arg Gln Lys Ser Glu Met Ala Leu Thr Glu Phe Lys Ser
35 40 45

Arg Cys Trp Glu Gly Ser Thr Pro Leu Gly Gly Cys Gly Gly Gly Ser
50 55 60

Ile Ser Leu Pro Ser Pro Thr Tyr Gly Leu Cys Ile Pro Trp Leu Val

5024

65 70 75 80

Ala Pro Ser Ser Ile Phe Lys Ala Ser Ser Val Val Leu Pro Ile Ser

 85 90 95

Leu Ile Phe Leu

 100

<210> 5722

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5722

Ala Arg Ala Glu Ile Gly Phe Leu Glu Gly Ser Ser Gly Lys Trp Pro

1 5 10 15

Asp Ser Ile Leu Arg Leu Cys Met Thr Ser Arg Tyr Tyr Pro Val Gly

 20 25 30

Val Pro Trp Gly Ala Met Ala Ala Ile Arg Cys Arg Leu Gly Tyr Ile

 35 40 45

Lys Trp Ala Glu Gly Thr Cys Leu Gly Arg Trp Gly Gly Leu Gln

 50 55 60

<210> 5723

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5723

Phe Met Ile Leu Xaa Tyr Lys Ser Tyr Glu Phe Leu Glu Leu Gln Lys

1 5 10 15

Trp Pro Gly Val Val Ala His Thr Val Asn Pro Gly Thr Leu Gly Gly

 20 25 30

Gln Gly Arg Arg Thr Thr

 35

5025

<210> 5724

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5724

Asp	Glu	Glu	Val	Tyr	Ile	Trp	Val	Ser	Phe	Leu	His	Pro	Val	Glu	Ser
1				5					10					15	

Ser	Arg	Lys	Ser	Gly	Pro	Ile	Leu	Ser	Cys	Ser	Phe	Thr	Glu	Lys	Leu
			20					25					30		

Leu	Ser	Pro	Phe	Xaa	Phe	Leu	Leu	Asn	Glu	Leu	Trp	Ser	Pro	Asp	Leu
		35				40						45			

Leu	Cys	Lys	Gly	Gln	Pro	Asp	Pro	Pro	Phe	Met	His	Ser	Pro	Ser	Glu
	50					55					60				

Ser	Leu	Leu	Val	Ala	Trp	Leu	Glu	Xaa	Ser	Gly	Ile	Phe	Glu	Phe	Trp
65					70					75					80

Pro	Leu	Gln	Leu	Ser	Trp	Gly	Pro	Xaa	Gly	Gly	Leu	Pro	Pro	Leu	
				85					90					95	

<210> 5725

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5725

His	Glu	Gly	Val	Ser	Thr	Ala	Pro	Ser	Gln	Lys	Phe	Tyr	Ile	Phe	Tyr
1				5					10					15	

5026

Arg Gly Lys Lys Thr Leu Tyr Thr Met Ala Arg Pro Phe Leu Ser Gln
 20 25 30

Lys Ala Gly Pro Thr Glu Gln Phe Lys Leu Cys Ser Ser Arg Leu Lys
 35 40 45

Ala Gly Phe Val Glu Glu Leu Gln Leu Leu Ser Arg Ala Asn Pro Val
 50 55 60

Val Ile Gln Gly Glu Cys Lys Leu Ala Ser Leu Asp Arg Asp Gln Ser
 65 70 75 80

<210> 5726
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 5726
 Ile Gln Ile Asn Phe His Ala His Leu Tyr Leu Lys Asp Ser Asp Phe
 1 5 10 15

Ser Leu Ser Gln Leu Arg Asn Ile Arg Leu Asn Pro Ala Val Leu Gln
 20 25 30

Met Phe Leu Leu Arg Leu Lys His Gln Leu Ile Asn Arg Tyr Leu Phe
 35 40 45

Ile Phe Asn
 50

<210> 5727
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5727
 Pro Xaa Ser Ser Trp Asp Tyr Arg His Thr Pro Pro Cys Pro Ala His
 1 5 10 15

5027

Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp
 20 25 30

Leu His Leu Leu Thr Leu
 35

<210> 5728

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5728

Ser Lys Asp Gly Ala Xaa Cys Xaa Lys Ser Lys Asp Leu Leu Lys Gln
 1 5 10 15

Arg Tyr Leu Phe Ala Lys Ala Gly Tyr Pro Leu Arg Arg Ser Gln Ser
 20 25 30

Leu Pro Thr Thr Leu Leu Ser Pro Val Arg Val Val Ser Ser Val Asn
 35 40 45

Val Arg Leu Ser Pro Gly Lys Glu Thr Arg Cys Ser Pro Pro Ser Phe
 50 55 60

Thr Tyr Lys Tyr Thr Pro Glu Glu Glu Gln Glu Leu Glu Lys Arg Val
 65 70 75 80

Met Glu His Asp Gly Gln Ser Leu Val Lys Ser Thr Ile Phe Ile Ser
 85 90 95

Pro Ser Ser Val Lys Lys Glu Glu Ala Pro Gln Ser Xaa Ala Pro Arg
 100 105 110

5028

<210> 5729

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5729

Ile	Leu	Phe	Ala	Pro	Pro	Arg	Phe	Ala	Pro	Glu	Arg	Gln	Ser	Ser	Ser
1				5					10					15	

Arg	Gly	Pro	Leu	Arg	His	Arg	Tyr	Ser	Ser	Gln	Ile	Xaa	Thr	His	Phe
			20					25					30		

Thr	Ala	Thr	Pro	Gly	Ile	Leu	Pro	Pro	Leu	Arg	Asp	Ser	Ser	Leu	Pro
			35				40					45			

Val	Ser	Asp	Ala	Val	Pro	Arg	Leu	Ser	Pro	Gly	Ile	Ser	His	Leu	Thr
	50					55					60				

<210> 5730

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5730

Ser	Leu	Ser	Ala	Pro	Glu	Leu	Lys	Ser	Leu	Ala	Lys	Thr	Phe	His	Leu
1				5					10					15	

Val	Asn	Pro	Asn	Gly	Gln	Lys	Gln	Gln	Leu	Val	Asp	Ala	Phe	Leu	Lys
			20					25					30		

Leu	Ala	Lys	Gln	Arg	Ser	Val	Cys	Thr	Trp	Gly	Lys	Asn	Lys	Pro	Gly
			35				40					45			

Ile	Gly	Ala	Val	Ile	Leu	Lys	Arg	Phe	Cys	Trp	Leu	Leu	Leu	Gln	
	50					55					60				

5029

<210> 5731

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5731

Glu	Met	Ser	His	Lys	Glu	Arg	His	Phe	Glu	Leu	Leu	Leu	Lys	Ser	Cys
1				5					10					15	

Lys	Val	Ser	Tyr	Pro	Gly	Thr	Val	Phe	Leu	Asn	Gly	Asn	Val	Met	Ala
			20					25					30		

Glu	Ser	Cys	Ser	Ile	Thr	Thr	Xaa	Gly	Leu	Val	His	Gln	Val	Pro	Thr
		35					40					45			

His	Pro	Leu	Gln	Ala	Leu	Gly	Ser	Gly	Met	Cys	Pro	Ser	Trp	Lys	Xaa
		50				55					60				

Gln	Val	Leu	Trp	Leu	Cys	Trp	Phe	Trp	Leu	Ser	Phe	Ser	Val	Thr	Phe
65					70					75					80

Gln	Tyr	Leu	Ser	Pro	Ser	Arg	Tyr	Cys	Lys	Pro	Leu	Ser	Asn
				85					90				

<210> 5732

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5732

Gly	Xaa	Gly	Phe	Trp	Pro	Ala	Ser	Val	Ala	Arg	Val	Leu	Thr	Gly	Val
1				5					10					15	

5030

Thr Asn His Leu Ala Phe Asn Thr Lys Lys Pro His Ile Leu Arg Asn
 20 25 30
 Pro Arg Thr Gln Lys Val Leu Gly Phe Val Ser Asp Ala Glu Gly Trp
 35 40 45
 Val Glu Ser Met Lys Pro Thr Gln Arg Asp Asp Ser Thr Ile Cys Ser
 50 55 60
 Ile Gly Trp Lys Trp Arg Gly
 65 70

<210> 5733
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 5733
 His Gln Trp Arg Gly Ala Leu His Ile Leu Cys Gln Gln Gln His Ser
 1 5 10 15
 His Thr Arg Trp Phe Trp Ala Leu Cys Arg Leu Val Leu Val Gly Asp
 20 25 30
 Thr Gln Gln His Pro Cys Trp Thr Gly Leu Ile Val Arg Ser Leu Arg
 35 40 45
 Pro Thr Leu Gln Ser Glu Met Leu Leu Gly Gly Gly Lys Glu Asn Thr
 50 55 60
 Phe Phe Pro Pro Cys Gly Asn Glu Glu Arg Gly Lys Trp Ile Gly Lys
 65 70 75 80
 Pro Lys Cys Glu Ser
 85

<210> 5734
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 5734
 Phe Ser Leu Thr Leu Phe Pro Pro Pro Thr Cys His Gln Ala Ser Pro
 1 5 10 15
 Lys Pro Thr Ala Met Gly Pro Ser Gly Pro Phe Arg Asp Trp Ser Glu
 20 25 30

5031

Cys Ile Gly Gly Gln Asp Pro Asp His Ser Leu
115 120

u Xaa Gly Arg Ser Ser Leu Ser Lys Val
35 40

5032

<210> 5736

<211> 34

<212> PRT

<213> Homo sapiens

<400> 5736

Tyr Pro Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser
 1 5 10 15

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ile Leu Gly Leu Arg Phe
 20 25 30

Phe Met

<210> 5737

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5737

Tyr Ser Arg Pro Gln Ala His Ser Ser Ala Ser Gly Gly Ile Arg Arg
 1 5 10 15

Ser Ser Ser Met Ser Tyr Val Asp Gly Phe Ile Gly Thr Trp Pro Lys
 20 25 30

Glu Lys Arg Ser Ser Val His Gly Val Ser Phe Asp Ile Ser Phe Asp
 35 40 45

Lys Glu Asp Ser Val Gln Arg Ser Thr Pro Asn Arg Gly Ile Thr Arg
 50 55 60

Ser Ile Ser Asn Glu Gly Leu Thr Leu Asn Asn Ser His Val Ser Lys
 65 70 75 80

Iis Ile Arg Lys Asn Leu Ser Phe Lys Pro Ile Asn Gly Glu Glu Glu

5033

	85		90		95
Ala Glu Ser Ile Glu Glu Glu Leu Asn Ile Asp Ser His Ser Asp Leu					
	100		105		110
Lys Ser Cys Val Pro Leu Asn Thr Asn Glu Leu Asn Ser Asn Glu Asn					
	115		120		125
Ile His Tyr Lys Leu Pro Asn Gly Ala Leu Gln Asn Arg Ile Leu Leu					
	130		135		140
Asp Glu Phe Gly Asn Gln Ile Glu Thr Pro Ser Ile Glu Glu Ala Leu					
	145		150		155
Gln Ile Ile His Asp Thr Xaa Lys Ser Pro His Thr Pro Gln Pro Asp					
	165		170		175
Gln Ile Ala Asn Gly Phe Phe Leu His Ser Gln Gly Met Ser Ile Leu					
	180		185		190
Asn Ser Xaa Ile Lys Leu Asn Gln Ser Ser					
	195		200		

<210> 5738
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 5738
 Gly Arg Ile Ser His Val Gly Ser Arg Thr Glu Gly Ser Arg Leu Pro
 1 5 10 15
 Ala Gln Cys Ser Leu Cys Ser Thr Met Leu Pro Leu Val Gly Glu Thr
 20 25 30
 Gly Gln Lys
 35

<210> 5739
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 5739
 Val Trp Gly Lys Lys Ala Val Ser Arg Gly Phe Ser Lys Gly Asn Thr
 1 5 10 15

5034

Gln Met Ala Lys Lys His Met Gln Arg Cys Ser Met Phe Phe Val Ile
 20 25 30

Arg Lys Met
 35

<210> 5740
 <211> 220
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5740
 Glu Lys Thr Ile Leu Thr Gly Glu Cys Cys Tyr Leu Asn Pro Leu Leu
 1 5 10 15

Arg Arg Ile Ile Arg Phe Thr Gly Val Phe Ala Phe Gly Leu Phe Ala
 20 25 30

Thr Asp Ile Phe Val Asn Ala Gly Gln Val Val Thr Gly His Leu Thr
 35 40 45

Pro Tyr Phe Leu Thr Val Cys Lys Pro Asn Tyr Thr Ser Ala Asp Cys
 50 55 60

Xaa Ala His His Gln Phe Ile Asn Asn Gly Asn Ile Cys Thr Gly Asp
 65 70 75 80

Arg Glu Val Ile Glu Lys Ala Arg Arg Ser Phe Pro Ser Lys His Xaa
 85 90 95

Ala Leu Ser Ile Tyr Ser Ala Leu Tyr Ala Thr Met Tyr Ile Thr Ser
 100 105 110

Thr Ile Lys Thr Xaa Ser Ser Arg Leu Ala Lys Pro Val Leu Cys Leu

5035

115		120		125
Gly Thr Leu Cys Thr Ala Phe Leu Thr Gly Leu Asn Arg Val Ser Glu				
130		135		140
Tyr Arg Asn His Cys Ser Asp Val Ile Ala Gly Phe Ile Leu Gly Thr				
145		150		155
				160
Ala Val Ala Leu Phe Leu Gly Met Cys Val Val His Asn Phe Lys Gly				
		165		170
				175
Thr Gln Gly Ser Pro Ser Lys Pro Lys Pro Glu Asp Pro Arg Gly Val				
		180		185
				190
Pro Leu Met Ala Phe Pro Arg Ile Glu Ser Pro Leu Glu Thr Leu Ser				
		195		200
				205
Ala Gln Asn His Ser Ala Ser Met Thr Glu Val Thr				
210		215		220

<210> 5741
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 5741
 Lys Thr Phe Arg Leu Phe Leu Ala Ile Ser Leu Thr Phe Ala Thr Ile
 1 5 10 15
 Val Thr Lys His Ser Leu Tyr Met His Pro Pro Asn Val Ser Cys Leu
 20 25 30
 Phe Ile Gly Lys Leu Tyr
 35

<210> 5742
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

5036

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5742

Trp	Gln	Gly	His	Trp	Pro	Gly	Pro	His	Leu	Pro	Ser	Ser	Xaa	Leu	Pro
1				5					10					15	

Lys	Arg	Lys	Leu	Pro	Trp	Xaa	Ser	Arg	Pro	Leu	Asn	Ala	Asn	Ser	Trp
			20					25					30		

Leu	Pro	Val	Ser	Gly	Trp	Val	Asp	Leu	Thr	Trp	Pro	Leu	Leu	Ala	Gly
			35				40					45			

Pro	Cys	Ser	Phe	Leu	Thr	Cys	Arg	Xaa	Glu	Gln
	50					55				

<210> 5743

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5743

Xaa	Leu	Val	Ala	Gly	Asp	Ile	Val	Leu	Asp	Lys	Leu	Gly	Glu	Arg	Leu
1				5					10					15	

Ala	Ile	Leu	Leu	Lys	Val	Arg	Asp	Met	Val	Ser	Ser	His	Val	Glu	Arg
			20					25					30		

Val	Phe	Gln	Ile	Tyr	Glu	Gln	His	Ala	Asp	Thr	Val	Gly	Ile	Asp	Ala
		35					40					45			

Val	Leu	Gln	Pro	Ser	Ala	Val	Ser	Pro	Ser	Val	Ala	Asp	Met	Leu	Glu
	50					55					60				

Trp	Leu	Gln	Asp	Ile	Glu	Arg	His	Tyr	Arg	Lys	Ser	Tyr	Leu	Lys	Arg
65					70					75					80

Lys	Tyr	Leu	Leu	Ser	Ser	Ile	Gln	Trp	Gly	Asp	Leu	Ala	Asn	Ile	Gln
				85					90					95	

5037

Ala Leu Pro Lys Ala Trp Asp Arg Ile Ser Lys Asp Glu His Gln Asp
 100 105 110

Leu Val Gln Asp Ile Leu Leu Asn Val Ser
 115 120

<210> 5744

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5744

Thr Xaa Asn Phe His Xaa Arg Xaa Glu Val Ile Asn Ser Gly His Gln
 1 5 10 15

Arg Ile Leu Ala Ser Ala Leu Gly Leu Val Met Tyr Gln Val Trp Tyr
 20 25 30

Tyr Phe Leu Phe Val Leu Ile Arg Phe Leu Pro Ser Ser Ser Ile Trp
 35 40 45

Glu Ile Lys Thr Gly Leu Leu Ala Trp Leu Val Thr Glu Arg Gln Ala
 50 55 60

His Ser
 65

<210> 5745

<211> 59

<212> PRT

<213> Homo sapiens

5038

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5745

Ser	Phe	Pro	Pro	Arg	Asn	Ser	Pro	Arg	Leu	Lys	Thr	Xaa	Leu	His	Tyr
1				5					10					15	

Gln	Val	Met	Arg	Cys	Glu	Gly	Gly	Ser	Leu	Lys	Val	Glu	Asn	Leu	Gly
			20					25					30		

Val	Glu	Ala	Thr	Val	Pro	Ser	Trp	Xaa	Leu	Ser	Phe	Leu	Ile	Cys	Glu
		35					40					45			

Met	Arg	Val	Asn	Val	Lys	Leu	Leu	Cys	Lys	Met
		50				55				

<210> 5746

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5746

Lys	Ala	Thr	Leu	Leu	Ser	Cys	Glu	Ala	His	His	Leu	Ser	Leu	Ala	Leu
1				5					10					15	

Gly	Ser	Ser	Cys	Arg	Arg	Ser	Leu	Gly	Pro	Leu	Met	His	Pro	Phe	Gln
			20					25					30		

Gln	Thr	Phe	His	Phe	Gly	Val	Arg	Xaa	Asp	Phe	Leu	Ala	Leu	Gln	Gly
		35					40					45			

5039

Ala Pro Ala Ser Ser Cys Ile Pro Cys Pro Gly Pro Gly Ile Ser Pro
 50 55 60

Phe Ser Lys Glu Pro Arg Val Leu Leu Leu Ala Ser Leu Lys Arg Val
 65 70 75 80

Arg Pro Gly Cys Gln Ala Gly Ser Pro Arg Ser Phe Tyr Trp Glu Val
 85 90 95

Leu Glu Ser Glu Ala Trp Val Pro Gly Gly Cys Gln Val Gly Xaa Val
 100 105 110

Leu Leu Gly Cys Cys
 115

<210> 5747
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 5747

Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr
 1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
 20 25 30

Gly Leu Val Arg Val Phe Phe Phe Phe Phe Phe Lys Thr Asn Thr Phe
 35 40 45

Ile Ala His Leu
 50

<210> 5748
 <211> 270
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (266)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5748

Thr Leu Glu Gln Glu Gln Glu Ala Leu Val Asn Arg Leu Trp Lys Arg
 1 5 10 15

5040

Met Asp Lys Leu Glu Ala Glu Lys Arg Ile Leu Gln Glu Lys Leu Asp
 20 25 30
 Gln Pro Val Ser Ala Pro Pro Ser Pro Arg Asp Ile Ser Met Glu Ile
 35 40 45
 Asp Ser Pro Glu Asn Met Met Arg His Ile Arg Phe Leu Lys Asn Glu
 50 55 60
 Val Glu Arg Leu Lys Lys Gln Leu Arg Ala Ala Gln Leu Gln His Ser
 65 70 75 80
 Glu Lys Met Ala Gln Tyr Leu Glu Glu Glu Arg His Met Arg Glu Glu
 85 90 95
 Asn Leu Arg Leu Gln Arg Lys Leu Gln Arg Glu Met Glu Arg Arg Glu
 100 105 110
 Ala Leu Cys Arg Gln Leu Ser Glu Ser Glu Ser Ser Leu Glu Met Asp
 115 120 125
 Asp Glu Arg Tyr Phe Asn Glu Met Ser Ala Gln Gly Leu Arg Pro Arg
 130 135 140
 Thr Val Ser Ser Pro Ile Pro Tyr Thr Pro Ser Pro Ser Ser Ser Arg
 145 150 155 160
 Pro Ile Ser Pro Gly Leu Ser Tyr Ala Ser His Thr Val Gly Phe Thr
 165 170 175
 Pro Pro Thr Ser Leu Thr Arg Ala Gly Met Ser Tyr Tyr Asn Ser Pro
 180 185 190
 Gly Leu His Val Gln His Met Gly Thr Ser His Gly Ile Thr Arg Pro
 195 200 205
 Ser Pro Arg Arg Ser Asn Ser Pro Asp Lys Phe Lys Arg Pro Thr Pro
 210 215 220
 Pro Pro Ser Pro Asn Thr Gln Thr Pro Val Gln Pro Pro Pro Pro Pro
 225 230 235 240
 Pro Pro Pro Pro Met Gln Pro Thr Val Pro Ser Ala Ala Thr Ser Gln
 245 250 255
 Pro Thr Pro Ser Gln His Ser Ala His Xaa Ser Ser Gln Pro
 260 265 270

5041

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5749

Val	Ile	Gln	Val	Tyr	Thr	Ser	Val	Lys	Ile	Gln	Arg	Met	Tyr	Thr	Gln
1				5					10					15	

Asp	Leu	Cys	Ile	Ser	Leu	Tyr	Val	Asn	Val	Thr	Leu	Lys	Cys	Cys	Lys
			20					25					30		

Gln	Ile	Leu	Asn	Lys	Tyr	Thr	His	Ala	Lys	Val	Phe	Lys	Arg	Lys	Tyr
			35				40					45			

Trp	Cys	Leu	Gln	Asn	Lys	Asn	Phe	Phe	Ser	Ile	Phe	Cys	Gly	Lys	Ile
	50					55					60				

Tyr	Ile	Ile
65		

<210> 5750

<211> 152

<212> PRT

<213> Homo sapiens

<400> 5750

Pro	Arg	Gly	Ser	Val	Gly	Val	Ser	Ser	Glu	Leu	His	Gln	Phe	Pro	Gly
1				5					10					15	

Tyr	Leu	Gly	Pro	Trp	Ile	Thr	Leu	Arg	Ser	Ala	Thr	Cys	Gln	Leu	Ile
			20					25					30		

Ser	Lys	Leu	Leu	Leu	Ala	Gly	Leu	Arg	Leu	Ser	Arg	Glu	His	Leu	Gly
			35				40					45			

Glu	Pro	Cys	Ala	Ala	Gly	Trp	Thr	Pro	Ala	His	Leu	Ala	Asp	Tyr	Ser
	50					55					60				

Cys	Phe	Cys	Ser	Pro	Val	Cys	Pro	Gln	Glu	Val	Arg	Ala	Cys	Leu	Leu
65					70					75					80

Phe	Leu	His	Asp	His	Gly	Arg	Arg	Gly	Thr	Asn	Met	Arg	Val	Leu	Ala
				85					90					95	

Ser	Pro	Gln	Trp	Trp	Leu	Pro	Arg	Ala	Gly	Glu	Thr	Leu	Gly	Glu	Gly
			100					105					110		

Leu	Gly	Gln	Gly	Pro	Leu	Ser	Leu	Ala	Ala	Thr	Ala	Trp	Val	Asn	Cys
			115				120					125			

5042

Leu Ala Arg Leu Ala Ala Arg Ala Gln Lys Ala Glu Ala Leu Pro Ala
 130 135 140

Phe Ser Ser His Pro Ala Pro Met
 145 150

<210> 5751
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 5751
 Arg Val Ala Val Glu Asp Val Ser Met Val Lys Gln Lys Asn Thr Thr
 1 5 10 15

Phe Leu Trp Lys Glu Ile Leu Lys Gln Gln Ser Gln Ile Val Lys Met
 20 25 30

Leu Arg Ile Ser Val Pro Pro Leu Thr Ser Val Ser Val Lys Pro Gln
 35 40 45

Leu Gly Cys Thr Glu Asp Tyr Leu Leu Ser Lys Leu Pro Ser Asp Gly
 50 55 60

Lys Glu Val Pro Phe Val Val Arg Lys Phe Lys Leu Ser Tyr Ile Gln
 65 70 75 80

Pro Arg Thr Gln Glu Thr Pro Ser His Leu Glu Glu Leu Glu Gly Ser
 85 90 95

Ala Gly

<210> 5752
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5752
 Asp Arg Lys Arg Asp Leu Thr Ser Pro Trp Arg Leu Ser Val Ser Ala
 1 5 10 15

5043

Glu Ala Leu Gly Leu Ala Leu Gly Leu Cys Ile Pro Glu Ser Cys Cys
 20 25 30
 Met Pro Gly Ile Gly Phe Gln Ala Cys Leu Ser Phe Ser Ser Leu Pro
 35 40 45
 Gly Ile Ala Met Arg Trp Glu Gly Glu Pro Ser Ser Pro Ala Glu Ile
 50 55 60
 Pro Ala Ala Trp Gln Pro Ala Gly Gly Ser Trp Ile Pro Arg Gly Asp
 65 70 75 80
 Xaa Thr Asp Ala Leu Trp Phe His Val Ile Trp Ile
 85 90

<210> 5753

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5753

Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn
 1 5 10 15

5044

Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser
 20 25 30
 Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro
 35 40 45
 Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp
 50 55 60
 Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr
 65 70 75 80
 Xaa Glu Gly Xaa Cys Gly Asn Trp
 85

<210> 5754

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5754

Lys Ile Phe Ser Phe Ala Val Pro Asp Pro Leu Met Pro Asp Pro Xaa
 1 5 10 15

Lys Gln Pro Lys Asn Gln Leu Asn Pro Ile Gly Ser
 20 25

<210> 5755

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5755

Arg Met Asn Ile Cys Val Ser Val Cys Val Ser Glu Leu Cys Asp Phe
 1 5 10 15

Ile Arg Gly Ile Cys Gln Phe Ser His Cys Gly Ser Phe Ser Asp Phe
 20 25 30

Ala Cys Ser Ser Ser Lys Glu Ala Arg Ser Phe Ala Asp Phe Thr Ile
 35 40 45

5045

Pro Gln Thr Cys Lys Phe Leu Thr Ser Ser Lys Leu Ala Leu Ala Leu
 50 55 60

Ser Ser Thr Phe Pro Phe Lys Ser Asn Leu Cys
 65 70 75

<210> 5756

<211> 540

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (320)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (508)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5756

Thr Met Asp Glu Glu Lys Asp Asp Gly Glu Ala Lys Glu Ile Ser
 1 5 10 15

Thr Pro Thr His Trp Ser Lys Leu Asp Pro Lys Thr Met Lys Val Asn
 20 25 30

Asp Leu Arg Lys Glu Leu Glu Ser Arg Ala Leu Ser Ser Lys Gly Leu
 35 40 45

Lys Ser Gln Leu Ile Ala Arg Leu Thr Lys Gln Leu Lys Val Glu Glu
 50 55 60

Gln Lys Glu Glu Gln Lys Glu Leu Glu Lys Ser Glu Lys Glu Glu Asp
 65 70 75 80

Glu Asp Asp Asp Arg Lys Ser Glu Asp Asp Lys Glu Glu Glu Glu Arg
 85 90 95

Lys Arg Gln Glu Glu Ile Glu Arg Gln Arg Arg Glu Arg Arg Tyr Ile
 100 105 110

Leu Pro Asp Glu Pro Ala Ile Ile Val His Pro Asn Trp Ala Ala Lys
 115 120 125

Ser Gly Lys Phe Asp Cys Ser Ile Met Ser Leu Ser Val Leu Leu Asp
 130 135 140

5046

Tyr	Arg	Leu	Glu	Asp	Asn	Lys	Glu	His	Ser	Phe	Glu	Val	Ser	Leu	Phe	145	150	155	160
Ala	Glu	Leu	Phe	Asn	Glu	Met	Leu	Gln	Arg	Asp	Phe	Gly	Val	Arg	Ile	165	170	175	
Tyr	Lys	Ser	Leu	Leu	Ser	Leu	Pro	Glu	Lys	Glu	Asp	Lys	Lys	Glu	Lys	180	185	190	
Asp	Lys	Lys	Ser	Lys	Lys	Asp	Glu	Arg	Lys	Asp	Lys	Lys	Glu	Glu	Arg	195	200	205	
Asp	Asp	Glu	Thr	Asp	Glu	Pro	Lys	Pro	Lys	Arg	Arg	Lys	Ser	Gly	Asp	210	215	220	
Asp	Lys	Asp	Lys	Lys	Glu	Asp	Arg	Asp	Glu	Arg	Lys	Lys	Glu	Asp	Lys	225	230	235	240
Arg	Lys	Asp	Asp	Ser	Lys	Asp	Asp	Asp	Glu	Thr	Glu	Glu	Asp	Asn	Asn	245	250	255	
Gln	Asp	Glu	Tyr	Asp	Pro	Met	Glu	Ala	Glu	Glu	Ala	Glu	Asp	Glu	Glu	260	265	270	
Asp	Asp	Arg	Asp	Glu	Glu	Glu	Met	Thr	Lys	Arg	Asp	Asp	Lys	Arg	Asp	275	280	285	
Ile	Asn	Arg	Tyr	Cys	Lys	Glu	Arg	Pro	Ser	Lys	Asp	Lys	Glu	Lys	Glu	290	295	300	
Lys	Thr	Gln	Met	Ile	Thr	Ile	Asn	Arg	Asp	Leu	Leu	Met	Ala	Phe	Xaa	305	310	315	320
Tyr	Phe	Asp	Gln	Ser	His	Cys	Gly	Tyr	Leu	Leu	Glu	Lys	Asp	Leu	Glu	325	330	335	
Glu	Ile	Leu	Tyr	Thr	Leu	Gly	Leu	His	Leu	Ser	Arg	Ala	Gln	Val	Lys	340	345	350	
Lys	Leu	Leu	Asn	Lys	Val	Val	Leu	Arg	Glu	Ser	Cys	Phe	Tyr	Arg	Lys	355	360	365	
Leu	Thr	Asp	Thr	Ser	Lys	Asp	Glu	Glu	Asn	His	Glu	Glu	Ser	Glu	Ser	370	375	380	
Leu	Gln	Glu	Asp	Met	Leu	Gly	Asn	Arg	Leu	Leu	Leu	Pro	Thr	Pro	Thr	385	390	395	400
Val	Lys	Gln	Glu	Ser	Lys	Asp	Val	Glu	Glu	Asn	Val	Gly	Leu	Ile	Val	405	410	415	

5047

Tyr Asn Gly Ala Met Val Asp Val Gly Ser Leu Leu Gln Lys Leu Glu
 420 425 430

Lys Ser Glu Lys Val Arg Ala Glu Val Glu Gln Lys Leu Gln Leu Leu
 435 440 445

Glu Glu Lys Thr Asp Glu Asp Glu Lys Thr Ile Leu Asn Leu Glu Asn
 450 455 460

Ser Asn Lys Ser Leu Ser Gly Glu Leu Arg Glu Val Lys Lys Asp Leu
 465 470 475 480

Ser Gln Leu Gln Glu Asn Leu Lys Ile Ser Glu Asn Met Asn Leu Gln
 485 490 495

Phe Glu Asn Gln Met Asn Lys Thr Ile Arg Asn Xaa Ser Thr Val Met
 500 505 510

Asp Glu Ile His Thr Val Leu Lys Lys Asp Asn Val Lys Asn Glu Asp
 515 520 525

Lys Asp Gln Lys Ser Lys Glu Asn Gly Ala Ser Val
 530 535 540

<210> 5757

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5757

Glu Lys Gln Ala Glu Ile Leu Glu Tyr Ala Tyr His Gly Gln Ile Ala
 1 5 10 15

5048

Ile Val Ala Pro Glu Ala Leu Leu Ala Gly His Asn Tyr Thr Leu Lys
 20 25 30
 Ile Glu Tyr Ser Ala Asn Ile Ser Ser Ser Tyr Tyr Gly Phe Tyr Gly
 35 40 45
 Phe Ser Tyr Thr Asp Glu Ser Asn Glu Lys Lys Tyr Phe Ala Ala Thr
 50 55 60
 Gln Phe Glu Pro Leu Ala Ala Arg Ser Ala Phe Pro Cys Phe Asp Glu
 65 70 75 80
 Pro Ala Phe Lys Ala Thr Phe Ile Ile Lys Ile Ile Arg Asp Glu Gln
 85 90 95
 Tyr Thr Ala Leu Ser Asn Met Pro Lys Lys Ser Ser Val Val Leu Asp
 100 105 110
 Asp Gly Leu Val Gln Asp Glu Phe Ser Glu Ser Val Lys Met Ser Thr
 115 120 125
 Tyr Leu Val Ala Phe Ile Val Gly Glu Met Lys Asn Leu Ser Gln Asp
 130 135 140
 Val Asn Gly Thr Leu Val Ser Ile Tyr Ala Val Pro Glu Lys Ile Gly
 145 150 155 160
 Gln Val His Tyr Ala Leu Glu Thr Thr Val Lys Leu Leu Glu Phe Phe
 165 170 175
 Gln Asn Tyr Phe Glu Ile Gln Tyr Pro Leu Lys Lys Leu Asp Leu Val
 180 185 190
 Ala Ile Pro Asp Phe Glu Ala Arg Xaa Asn Gly Lys Leu Gly Phe Cys
 195 200 205
 Ser Pro Ser Glu Lys Xaa Thr Leu Leu Phe Asp Xaa Tyr Thr Ser Ser
 210 215 220
 Met Ala Asp Lys Lys Ala Gly
 225 230

<210> 5758

<211> 294

<212> PRT

<213> Homo sapiens

<400> 5758

Asn Met Thr Glu Asp Ser Gln Arg Asn Phe Arg Ser Val Tyr Tyr Glu

5049

1	5	10	15
Lys Val Gly Phe Arg Gly Val Glu Glu Lys Lys Ser Leu Glu Ile Leu	20	25	30
Leu Lys Asp Asp Arg Leu Asp Thr Glu Lys Leu Cys Thr Phe Ser Gln	35	40	45
Arg Phe Pro Leu Pro Ser Met Tyr Arg Ala Leu Val Trp Lys Val Leu	50	55	60
Leu Gly Ile Leu Pro Pro His His Glu Ser His Ala Lys Val Met Met	65	70	75
Tyr Arg Lys Glu Gln Tyr Leu Asp Val Leu His Ala Leu Lys Val Val	85	90	95
Arg Phe Val Ser Asp Ala Thr Pro Gln Ala Glu Val Tyr Leu Arg Met	100	105	110
Tyr Gln Leu Glu Ser Gly Lys Leu Pro Arg Ser Pro Ser Phe Pro Leu	115	120	125
Glu Pro Asp Asp Glu Val Phe Leu Ala Ile Ala Lys Ala Met Glu Glu	130	135	140
Met Val Glu Asp Ser Val Asp Cys Tyr Trp Ile Thr Arg Arg Phe Val	145	150	155
Asn Gln Leu Asn Thr Lys Tyr Arg Asp Ser Leu Pro Gln Leu Pro Lys	165	170	175
Ala Phe Glu Gln Tyr Leu Asn Leu Glu Asp Gly Arg Leu Leu Thr His	180	185	190
Leu Arg Met Cys Ser Ala Ala Pro Lys Leu Pro Tyr Asp Leu Trp Phe	195	200	205
Lys Arg Cys Phe Ala Gly Cys Leu Pro Glu Ser Ser Leu Gln Arg Val	210	215	220
Trp Asp Lys Val Val Ser Gly Ser Cys Lys Ile Leu Val Phe Val Ala	225	230	235
Val Glu Ile Leu Leu Thr Phe Lys Ile Lys Val Met Ala Leu Asn Ser	245	250	255
Ala Glu Lys Ile Thr Lys Phe Leu Glu Asn Ile Pro Gln Asp Ser Ser	260	265	270
Asp Ala Ile Val Ser Lys Ala Ile Asp Leu Trp His Lys His Cys Gly			

5050

275 280 285
 Thr Pro Val His Ser Ser
 290

<210> 5759
 <211> 431
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5759
 Xaa Phe Gly Ala Xaa Gly Thr Val Glu Ser Glu Thr Ser Pro Asp Arg
 1 5 10 15
 Asp Lys Lys Lys Glu Gln Ser Glu Val Ser Val Ser Pro Arg Ala Ser
 20 25 30
 Lys His His Tyr Ser Arg Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg
 35 40 45
 Lys Ser Asp Asn Glu Gly Arg Lys His Arg Ser Arg Ser Arg Ser Lys
 50 55 60
 Glu Gly Arg Arg His Glu Ser Lys Asp Lys Ser Ser Lys Lys His Lys
 65 70 75 80
 Ser Glu Glu His Asn Asp Lys Glu His Ser Ser Asp Lys Gly Arg Glu
 85 90 95
 Arg Leu Asn Ser Ser Glu Asn Gly Glu Asp Arg His Lys Arg Lys Glu
 100 105 110
 Arg Lys Ser Ser Arg Gly Arg Ser His Ser Arg Ser Arg Ser Arg Glu
 115 120 125
 Arg Arg His Arg Ser Arg Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg
 130 135 140
 Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Lys

5051

145		150		155		160
Ser Arg Ser Arg	Ser Arg Glu Arg Lys	Arg Arg Ile Arg	Ser Arg Ser			
	165	170	175			
Arg Ser Arg Ser	Arg His Arg His	Arg Thr Arg Ser	Arg Ser Arg Thr			
	180	185	190			
Arg Ser Arg Ser	Arg Asp Arg Lys Lys	Arg Ile Glu Lys	Pro Arg Arg			
	195	200	205			
Phe Ser Arg Ser	Leu Ser Arg Thr	Pro Ser Pro	Pro Phe Arg Gly			
	210	215	220			
Arg Asn Thr Ala	Met Asp Ala Gln Glu	Ala Leu Ala Arg	Arg Arg Leu Glu			
225	230	235	240			
Arg Ala Lys Lys	Leu Gln Glu Gln Arg	Glu Lys Glu Met	Val Glu Lys			
	245	250	255			
Gln Lys Gln Gln	Glu Ile Ala Ala Ala	Ala Ala Thr Gly	Gly Gly Ser			
	260	265	270			
Val Leu Asn Val	Ala Ala Leu Leu Ala	Ser Gly Thr Gln	Val Thr Pro			
	275	280	285			
Gln Ile Ala Met	Ala Ala Gln Met Ala	Ala Leu Gln Ala	Lys Ala Leu			
290	295	300				
Ala Glu Thr Gly	Ile Ala Val Pro Ser	Tyr Tyr Asn Pro	Ala Ala Val			
305	310	315	320			
Asn Pro Met Lys	Phe Ala Glu Gln Glu	Lys Lys Arg Lys	Met Leu Trp			
	325	330	335			
Gln Gly Lys Lys	Glu Gly Asp Lys Ser	Gln Ser Ala Glu	Ile Trp Glu			
	340	345	350			
Lys Leu Asn Phe	Gly Asn Lys Asp Gln	Asn Val Lys Phe	Arg Lys Leu			
	355	360	365			
Met Gly Ile Lys	Ser Glu Asp Glu Ala	Gly Cys Ser Ser	Val Asp Glu			
	370	375	380			
Glu Ser Tyr Lys	Thr Leu Lys Gln Gln	Glu Glu Val Phe	Arg Asn Leu			
385	390	395	400			
Asp Ala Gln Tyr	Glu Met Ala Arg Ser	Gln Thr His Thr	Gln Arg Gly			
	405	410	415			
Met Gly Leu Gly	Phe Thr Ser Ser	Met Arg Gly Met	Asp Ala Val			

5052

420

425

430

<210> 5760

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5760

Ala Gly Val Phe Ile Gly Glu Arg Lys Cys Val Val Trp Ala Gly Leu
 1 5 10 15

Leu Val Glu Ala Gly Phe Leu Ala His Leu Leu Tyr Met Leu Pro Met
 20 25 30

Asp Leu Arg Leu Glu Met Leu Lys Val Glu Trp Asn Tyr Phe Pro Pro
 35 40 45

Lys Thr Phe Ile Tyr Ser Thr Pro Leu Tyr Pro
 50 55

<210> 5761

<211> 99

<212> PRT

<213> Homo sapiens

<400> 5761

Val Ile Phe Tyr Phe Thr Asn Lys Gly Thr Lys Ser Met Asn Ile Ser
 1 5 10 15

Leu Phe Leu Ile Ile Ser Ala Leu Lys Tyr Phe Gly Tyr Leu Ala Pro
 20 25 30

Val Arg Ala Asp Trp His Cys Leu Val Gln Glu Val Cys Ser Arg Cys
 35 40 45

Ser Ala Ser Glu Leu His Tyr Asp Cys Pro Pro Thr Asn His Pro Pro
 50 55 60

Ala Ser Pro Arg Glu Arg Gly Ile Gln Arg Gly Thr Val Leu Thr Arg
 65 70 75 80

Ser Ser Gln Leu Asp Pro Gly Gln Arg Asn Pro Tyr Pro Gly Thr Leu
 85 90 95

Ser Leu Ser

5053

<210> 5762

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5762

Pro Pro Ser Leu Thr Lys Gly Asn Lys Ser Trp Cys Ser Thr Ala Val
1 5 10 15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30

Arg Phe Pro Leu Phe Leu Gly Val Ser Ile Leu Ser Pro Trp Lys Met
35 40 45

<210> 5763

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5763

Trp Asn Glu His Arg Pro Leu Asn Pro Arg Tyr Glu Phe Lys Ser Gln
1 5 10 15

Leu Trp Arg Trp Leu Leu Lys Val Ser Val Pro Ser Phe Phe Xaa Leu
20 25 30

Tyr Lys Val Asp Ile Thr Ile Ser Asn Leu Gln Ser His Trp Glu Leu
35 40 45

5054

Tyr Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser
 50 55 60

Lys Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile
 65 70 75 80

Ile Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe
 85 90 95

Pro Gln Tyr Phe Pro
 100

<210> 5764

<211> 136

<212> PRT

<213> Homo sapiens

<400> 5764

Cys Val Ile Leu Thr Lys Gly Ser Ser Leu Gly Gln Pro Ser Pro Gly
 1 5 10 15

Leu Gly His Ile His Leu Val Ala Lys Pro Leu Leu Gly Pro Lys Tyr
 20 25 30

Thr Pro Glu Ser Cys Gln Arg Lys Glu Ile Phe Lys Lys His Arg Gln
 35 40 45

Ile Val Cys Lys Trp Lys Ile Pro Ile Gly Leu Asp Ser Cys Gly Gly
 50 55 60

Lys Thr Ser Trp Val Pro Gly Gly Cys Gln Ser Trp Glu Leu Cys Arg
 65 70 75 80

Tyr Glu Ser Gly Lys Ala Gln Arg Gln Ala Glu Ser Leu Tyr Gly Asp
 85 90 95

Asn Leu Gln Cys Leu Leu Gly Phe Pro Asn Asn Leu Gly Val Gln Ser
 100 105 110

Ile Gly Phe Phe Ser Pro Leu Pro Thr Pro Arg Lys Ile Ile Arg Lys
 115 120 125

Met Phe Arg Arg Lys Glu Lys Asn
 130 135

<210> 5765

5055

<211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (161)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5765
 Val Arg Val Gln Glu Val Val Lys Glu Asn Glu Glu Leu His Gln Glu
 1 5 10 15
 Leu Asn Lys Ser Ser Ala Val Thr Ser Glu Glu Trp Arg Gln Leu Gln
 20 25 30
 Thr Xaa Ala Lys Leu Val Leu Glu Glu Asn Lys Leu Leu Leu Glu Gln
 35 40 45
 Leu Glu Ile Gln Gln Arg Lys Ala Lys Asp Ser His Gln Glu Arg Leu
 50 55 60
 Gln Glu Val Ser Lys Leu Thr Lys Gln Leu Met Leu Leu Glu Ala Lys
 65 70 75 80
 Thr His Gly Gln Glu Lys Glu Leu Ala Glu Asn Arg Glu Gln Leu Glu
 85 90 95
 Ile Leu Arg Ala Lys Cys Gln Glu Leu Lys Thr His Ser Asp Gly Lys
 100 105 110

5056

Ile Ala Val Glu Val His Lys Ser Ile Val Asn Glu Leu Lys Ser Gln
 115 120 125

Leu Gln Lys Glu Glu Xaa Lys Glu Arg Ala Glu Met Glu Glu Leu Met
 130 135 140

Glu Lys Leu Thr Val Leu Gln Ala Gln Lys Lys Ser Leu Leu Leu Xaa
 145 150 155 160

Xaa Asn Ile Leu Thr Glu Xaa Asn
 165

<210> 5766

<211> 135

<212> PRT

<213> Homo sapiens

<400> 5766

Ile Arg His Glu Val Val Gly Gly Ser Gly Gly Val Tyr Ala Leu Cys
 1 5 10 15

Ser Ala His Leu Ala Asn Val Val Met Asn Trp Ala Gly Met Arg Cys
 20 25 30

Pro Tyr Lys Leu Leu Arg Met Val Leu Ala Leu Val Cys Met Ser Ser
 35 40 45

Glu Val Gly Arg Ala Val Trp Leu Arg Phe Ser Pro Pro Leu Pro Ala
 50 55 60

Ser Gly Pro Gln Pro Ser Phe Met Ala His Leu Ala Gly Ala Val Val
 65 70 75 80

Gly Val Ser Met Gly Leu Thr Ile Leu Arg Ser Tyr Glu Glu Arg Leu
 85 90 95

Arg Asp Gln Cys Gly Trp Trp Val Val Leu Leu Ala Tyr Gly Thr Phe
 100 105 110

Leu Leu Phe Ala Val Phe Trp Asn Val Phe Ala Tyr Asp Leu Leu Gly
 115 120 125

Ala His Ile Pro Pro Pro Pro
 130 135

<210> 5767

<211> 351

5057

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5767

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Ile Arg His Glu Ile Leu Trp Leu Leu Cys Ser His Arg Pro Ala Pro
 1             5             10             15

Gly Arg Pro Pro Thr His Asn Ala His Asn Trp Arg Leu Gly Gln Ala
          20             25             30

Pro Ala Xaa Trp Tyr Asn Asp Thr Tyr Pro Leu Ser Pro Pro Gln Arg
          35             40             45

Thr Pro Ala Gly Ile Arg Tyr Arg Ile Ala Val Ile Ala Asp Leu Asp
          50             55             60

Thr Glu Ser Arg Ala Gln Glu Glu Asn Thr Trp Phe Ser Tyr Leu Lys
 65             70             75             80

Lys Gly Tyr Leu Thr Leu Ser Asp Ser Gly Asp Lys Val Ala Val Glu
          85             90             95

Trp Asp Lys Asp His Gly Val Leu Glu Ser His Leu Ala Glu Lys Gly
          100            105            110

Arg Gly Met Glu Leu Ser Asp Leu Ile Val Phe Asn Gly Lys Leu Tyr
          115            120            125

Ser Val Asp Asp Arg Thr Gly Val Val Tyr Gln Ile Glu Gly Ser Lys
          130            135            140

Ala Val Pro Trp Val Ile Leu Ser Asp Gly Asp Gly Thr Val Glu Lys
          145            150            155            160

Gly Phe Lys Ala Glu Trp Leu Ala Val Lys Asp Glu Arg Leu Tyr Val
          165            170            175

Gly Gly Leu Gly Lys Glu Trp Thr Thr Thr Thr Gly Asp Val Val Asn
          180            185            190

Glu Asn Pro Glu Trp Val Lys Val Val Gly Tyr Lys Gly Ser Val Asp
          195            200            205

His Glu Asn Trp Val Ser Asn Tyr Asn Ala Leu Arg Ala Ala Ala Gly
          210            215            220

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5058

Ile Gln Pro Pro Gly Tyr Leu Ile His Glu Ser Ala Cys Trp Ser Asp
 225 230 235 240

Thr Leu Gln Arg Trp Phe Phe Leu Pro Arg Arg Ala Ser Gln Glu Arg
 245 250 255

Tyr Ser Glu Lys Asp Asp Glu Arg Lys Gly Ala Asn Leu Leu Leu Ser
 260 265 270

Ala Ser Pro Asp Phe Gly Asp Ile Ala Val Ser His Val Gly Ala Val
 275 280 285

Val Pro Thr His Gly Phe Ser Ser Phe Lys Phe Ile Pro Asn Thr Asp
 290 295 300

Asp Gln Ile Ile Val Ala Leu Lys Ser Glu Glu Asp Ser Gly Arg Val
 305 310 315 320

Ala Ser Tyr Ile Met Ala Phe Thr Leu Asp Gly Arg Phe Leu Leu Pro
 325 330 335

Glu Thr Lys Ile Gly Ser Val Lys Tyr Glu Gly Ile Glu Phe Ile
 340 345 350

<210> 5768

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5768

Asn Tyr Gln Ile Ser Glu Ile Tyr Phe Leu Leu Val Thr Met Lys Ser
 1 5 10 15

Thr Phe Thr Leu Glu Ser Asn Cys Asn Thr Pro Lys Ile Arg Ala Thr
 20 25 30

Lys Gly Met Tyr Gly Ala Phe Phe Asn Leu Lys Asn Cys Ile Leu Phe
 35 40 45

Leu Ile Pro Tyr Leu Lys His
 50 55

<210> 5769

<211> 121

<212> PRT

<213> Homo sapiens

5059

<400> 5769

Tyr Pro Phe Phe Thr Leu Cys Gln Arg Asn Arg Val Phe Asp Ile Ser
 1 5 10 15

Ser Tyr Val Lys Glu Met Leu Gln Asn Val Asn Cys Phe Lys Leu Lys
 20 25 30

Leu Pro Leu Lys Arg Pro Arg Tyr Ile Tyr Leu Ile Val Tyr Ile Met
 35 40 45

Phe Asn Ile Cys Gln Ser Ile Leu Gln Val Cys Ser Phe Ile Ser Ile
 50 55 60

Lys Tyr Gly Tyr Tyr Val Ala Gln Leu Leu Lys Trp Tyr Cys Ile Val
 65 70 75 80

Tyr Ile Cys Thr Pro Asn Asn Ile Val Cys Thr Phe Cys Phe Leu Tyr
 85 90 95

Cys Ile Cys Ala Gly Phe Phe Arg Leu Tyr Gln Cys Asn Leu Cys Leu
 100 105 110

Leu Arg Tyr Val Gln Lys Met Ser Ile
 115 120

<210> 5770

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5770

Glu Phe Gly Thr Ser His Trp Asp Met Ser Leu Pro Leu Ile Val Thr
 1 5 10 15

Leu Ser Thr Ile Ser Ile Ile Leu Leu Ala Ala Met Ile Thr Ile Ala
 20 25 30

Val Lys Cys Lys Arg Glu Asn Lys Glu Ile Arg Thr Tyr Asn Cys Arg
 35 40 45

Ile Ala Glu Tyr Ser His Pro Gln Leu Gly Gly Gly Lys Gly Lys Lys
 50 55 60

Lys Lys Ile Asn Lys Asn Asp Ile Met Leu Val Gln Ser Glu Val Glu

5060

65					70						75				80
Glu	Arg	Asn	Ala	Met	Asn	Val	Met	Asn	Val	Val	Ser	Ser	Pro	Ser	Leu
				85					90					95	
Ala	Thr	Ser	Pro	Met	Tyr	Phe	Asp	Tyr	Gln	Thr	Arg	Leu	Pro	Leu	Ser
			100					105					110		
Ser	Pro	Arg	Ser	Glu	Val	Met	Tyr	Leu	Lys	Pro	Ala	Ser	Asn	Asn	Leu
			115				120					125			
Thr	Val	Pro	Gln	Gly	His	Ala	Gly	Cys	His	Thr	Ser	Phe	Thr	Gly	Gln
			130			135					140				
Gly	Thr	Asn	Ala	Ser	Glu	Thr	Pro	Ala	Thr	Arg	Met	Ser	Ile	Ile	Gln
145					150					155					160
Thr	Asp	Asn	Phe	Pro	Ala	Glu	Pro	Asn	Tyr	Met	Gly	Ser	Arg	Gln	Gln
				165					170					175	
Phe	Val	Gln	Ser	Xaa	Ser	Thr	Phe	Lys	Asp	Pro	Glu	Arg	Pro	Ala	
			180					185					190		

<210> 5771

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5771

Arg	Xaa	Pro	Xaa	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala
1				5					10					15	

Val	Thr	Thr	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser
			20					25					30		

5061

Ala	Arg	Ala	Pro	Ala	Ser	Arg	Ser	Arg	Thr	Pro	Pro	Ala	Ser	Arg	Leu
		35					40					45			
Thr	Arg	Ser	Cys	Gln	Arg	Arg	Ser	Ala	Ala	Ala	Glu	Pro	Lys	Gly	Pro
		50					55					60			
Glu	Asp	Ser	Gly	Ala	Gly	Gly	Thr	Gly	Cys	Gly	Gly	Ala	Asp	Asp	Pro
		65					70					75			80
Ala	Lys	Lys	Lys	Lys	Gln	Arg	Arg	Gln	Arg	Thr	His	Phe	Thr	Xaa	Gln
				85					90					95	
Gln	Leu	Gln	Glu	Leu	Glu	Ala	Thr	Phe	Gln	Arg	Asn	Arg	Tyr	Pro	Asp
				100					105					110	
Met	Ser	Met	Arg	Glu	Glu	Ile	Ala	Val	Trp	Thr	Asn	Leu	Thr	Glu	Pro
				115					120					125	
Arg															

<210> 5772

<211> 399

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$ (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (349)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5772

Leu Glu Pro Pro Ala Glu Pro Leu Gln Tyr Leu Ala Cys Tyr Arg Phe
1 5 10 15

His Cys Ser His Gln Leu Gly Asp Asn Met Trp Phe Leu Thr Thr Leu
20 25 30

Leu Leu Trp Val Pro Val Asp Gly Gln Val Asp Thr Thr Lys Ala Val
35 40 45

Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe Gln Glu Glu Thr Val
50 55 60

5062

Thr	Leu	His	Cys	Glu	Val	Leu	His	Leu	Pro	Gly	Ser	Ser	Ser	Thr	Gln	65	70	75	80
Trp	Phe	Leu	Asn	Gly	Thr	Ala	Thr	Gln	Thr	Ser	Thr	Pro	Ser	Tyr	Arg	85	90	95	
Ile	Thr	Ser	Ala	Ser	Val	Asn	Asp	Ser	Gly	Glu	Tyr	Arg	Cys	Gln	Arg	100	105	110	
Gly	Leu	Ser	Gly	Arg	Ser	Asp	Pro	Ile	Gln	Leu	Glu	Ile	His	Arg	Gly	115	120	125	
Trp	Leu	Leu	Leu	Gln	Val	Ser	Ser	Arg	Val	Phe	Thr	Glu	Gly	Glu	Pro	130	135	140	
Leu	Ala	Leu	Arg	Cys	His	Ala	Trp	Lys	Asp	Lys	Leu	Val	Tyr	Asn	Val	145	150	155	160
Leu	Tyr	Tyr	Arg	Asn	Gly	Lys	Ala	Phe	Lys	Phe	Phe	His	Trp	Asn	Ser	165	170	175	
Asn	Leu	Thr	Ile	Leu	Lys	Thr	Asn	Ile	Ser	His	Asn	Gly	Thr	Tyr	His	180	185	190	
Cys	Ser	Gly	Met	Gly	Lys	His	Arg	Tyr	Thr	Ser	Ala	Gly	Ile	Ser	Xaa	195	200	205	
Thr	Val	Lys	Glu	Leu	Phe	Pro	Ala	Pro	Val	Leu	Asn	Ala	Ser	Val	Thr	210	215	220	
Ser	Pro	Leu	Leu	Glu	Gly	Asn	Leu	Val	Thr	Leu	Ser	Cys	Glu	Thr	Lys	225	230	235	240
Leu	Leu	Leu	Gln	Arg	Pro	Gly	Leu	Gln	Leu	Tyr	Phe	Ser	Phe	Tyr	Met	245	250	255	
Gly	Ser	Lys	Thr	Leu	Arg	Gly	Arg	Asn	Thr	Ser	Ser	Glu	Tyr	Gln	Ile	260	265	270	
Leu	Thr	Ala	Arg	Arg	Glu	Asp	Ser	Gly	Leu	Tyr	Trp	Cys	Glu	Ala	Ala	275	280	285	
Thr	Glu	Asp	Gly	Asn	Val	Leu	Lys	Arg	Ser	Pro	Glu	Leu	Glu	Leu	Gln	290	295	300	
Val	Leu	Gly	Leu	Gln	Leu	Pro	Thr	Pro	Val	Trp	Phe	His	Val	Leu	Phe	305	310	315	320
Tyr	Leu	Ala	Val	Gly	Ile	Met	Phe	Leu	Val	Asn	Thr	Val	Leu	Trp	Val	325	330	335	

5063

Thr Ile Arg Lys Glu Leu Lys Arg Lys Lys Lys Trp Xaa Leu Glu Ile
 340 345 350

Ser Leu Asp Ser Gly His Glu Lys Lys Val Ile Ser Ser Leu Gln Glu
 355 360 365

Asp Arg His Leu Glu Glu Glu Leu Lys Cys Gln Glu Gln Lys Glu Glu
 370 375 380

Gln Leu Gln Glu Gly Val His Arg Lys Glu Pro Gln Gly Ala Thr
 385 390 395

<210> 5773

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5773

Gly Asp Arg Ala Glu Pro Ser Val Tyr Trp Ala Ala Val Thr Leu Arg
 1 5 10 15

Phe Gln Met Xaa Met Phe Glu Ser Ala Asp Ser Thr Ala Thr Arg Ser
 20 25 30

Gly Gln Asp Leu Trp Ala Glu Ile Cys Ser Cys Leu Pro Asn Pro Glu
 35 40 45

Gln Glu Asp Gly Ala Asn Asn Ala Phe Ser Asp Ser Phe Val Asp Ser
 50 55 60

Cys Pro Glu Gly Glu Gly Gln Arg Glu Val Ala Asp Phe Ala Val Gln
 65 70 75 80

Pro Ala Val Lys Pro Trp Ala Pro Leu Gln Asp Ser Glu Val Tyr Leu
 85 90 95

Ala Ser Leu Glu Lys Lys Leu Arg Arg Ile Lys Gly Leu Asn Gln Glu
 100 105 110

5064

Val Thr Ser Lys Asp Met Leu Arg Thr Leu Ala Gln Ala Lys Lys Glu
 115 120 125

Cys Trp Asp Arg Phe Leu Gln Glu Lys Leu Ala Ser Glu Phe Phe Val
 130 135 140

Asp Gly Leu Asp Ser Asp Glu Ser Thr Xaa Gly Thr Phe Gln Glu Val
 145 150 155 160

Ala Pro Ala Arg

<210> 5774
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 5774
 Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln
 1 5 10 15

Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val
 20 25 30

Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr
 35 40 45

Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro
 50 55 60

Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser
 65 70 75 80

Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser
 85 90 95

Asp Ser Glu Ser Asp Asp Ser Lys Ser Lys Lys Lys Arg Asp Ala Ala
 100 105 110

Asp Lys Pro Arg Gly Phe Ala Arg Gly Leu Asp Pro Glu Arg Ile Ile
 115 120 125

Gly Ala Thr Asp Ser Ser Gly Glu Leu Met Phe Leu Met Lys Trp Lys
 130 135 140

Asp Ser Asp Glu Ala Asp Leu Val Leu Ala Lys Glu Ala Asn Met Lys
 145 150 155 160

5065

Cys Pro Gln Ile Val Ile Ala Phe Tyr Glu Glu Arg Leu Thr Trp His
 165 170 175

Ser Cys Pro Glu Asp Glu Ala Gln
 180

<210> 5775

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5775

Lys Val Thr Glu Asp Thr Ser Ser Val Leu Arg Ser Pro Met Pro Gly
 1 5 10 15

Val Val Val Ala Val Ser Val Lys Pro Gly Asp Ala Val Ala Glu Gly
 20 25 30

Gln Glu Ile Cys Val Ile Glu Ala Met Lys Met Gln Asn Ser Met Thr
 35 40 45

Ala Gly Lys Thr Gly Thr Val Lys Ser Val His Cys Gln Ala Gly Asp
 50 55 60

Thr Val Gly Glu Gly Asp Leu Leu Val Glu Leu Glu
 65 70 75

<210> 5776

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5776

Thr Leu Gln Ser Lys Asp Ile Asp Trp Leu Asn Glu Trp Arg Lys Gln
 1 5 10 15

Asp Pro Leu Ile Cys Cys Leu Gln Glu Thr His Leu Asn Tyr Lys Asp
 20 25 30

Thr His Arg Leu Lys Val Lys Ser Trp Lys Glu Leu Phe His Ala Asn
 35 40 45

Gly Asn Gln Glu Lys Glu Lys Glu Tyr
 50 55

5066

<210> 5777

<211> 277

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5777

Arg	Gln	Lys	Gly	Thr	Ala	Ala	Arg	Arg	Arg	Gln	Xaa	Gly	Leu	Leu	Ala
1				5					10					15	

Ser	Ser	Arg	Pro	Glu	Pro	Ala	Asn	Glu	Arg	Lys	Met	Ala	Asp	Asn	Phe
			20					25					30		

Ser	Leu	His	Asp	Ala	Leu	Ser	Gly	Ser	Gly	Asn	Pro	Asn	Pro	Gln	Gly
		35					40					45			

Trp	Pro	Gly	Ala	Trp	Gly	Asn	Gln	Pro	Ala	Gly	Ala	Gly	Gly	Tyr	Pro
	50					55					60				

Gly	Ala	Ser	Tyr	Pro	Gly	Ala	Tyr	Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala
65					70					75					80

Tyr	Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala	Tyr	Xaa	Gly	Ala	Pro	Gly	Ala
				85					90					95	

Tyr	Pro	Gly	Ala	Pro	Ala	Pro	Gly	Val	Tyr	Pro	Gly	Pro	Pro	Ser	Gly
		100						105					110		

Pro	Gly	Ala	Tyr	Pro	Ser	Ser	Gly	Gln	Pro	Ser	Ala	Xaa	Gly	Ala	Tyr
		115					120					125			

Pro	Ala	Thr	Gly	Pro	Tyr	Gly	Ala	Pro	Ala	Gly	Pro	Leu	Ile	Val	Pro
		130				135						140			

Tyr	Asn	Leu	Pro	Leu	Pro	Gly	Gly	Val	Val	Pro	Arg	Met	Leu	Ile	Thr
145					150					155					160

5067

Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe
 165 170 175

Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
 180 185 190

Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn Trp
 195 200 205

Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly Lys Pro
 210 215 220

Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys Val Ala Val
 225 230 235 240

Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val Lys Lys Leu Asn
 245 250 255

Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile Asp Leu Thr Ser Ala
 260 265 270

Ser Tyr Thr Met Ile
 275

<210> 5778

<211> 565

<212> PRT

<213> Homo sapiens

<400> 5778

Leu His Cys Thr Met Cys Gly Ile Trp Ala Leu Phe Gly Ser Asp Asp
 1 5 10 15

Cys Leu Ser Val Gln Cys Leu Ser Ala Met Lys Ile Ala His Arg Gly
 20 25 30

Pro Asp Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys
 35 40 45

Phe Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
 50 55 60

Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly
 65 70 75 80

Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe Glu Tyr
 85 90 95

Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly

5068

100	105	110
Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val Phe Ala Phe Val		
115	120	125
Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu Gly Arg Asp Thr Tyr		
130	135	140
Gly Val Arg Pro Leu Phe Lys Ala Met Thr Glu Asp Gly Phe Leu Ala		
145	150	155
Val Cys Ser Glu Ala Lys Gly Leu Val Thr Leu Lys His Ser Ala Thr		
165	170	175
Pro Phe Leu Lys Val Glu Pro Phe Leu Pro Gly His Tyr Glu Val Leu		
180	185	190
Asp Leu Lys Pro Asn Gly Lys Val Ala Ser Val Glu Met Val Lys Tyr		
195	200	205
His His Cys Arg Asp Glu Pro Leu His Ala Leu Tyr Asp Asn Val Glu		
210	215	220
Lys Leu Phe Pro Gly Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg		
225	230	235
Ile Leu Phe Asn Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg		
245	250	255
Ile Gly Cys Leu Leu Ser Gly Gly Leu Asp Ser Ser Leu Val Ala Ala		
260	265	270
Thr Leu Leu Lys Gln Leu Lys Glu Ala Gln Val Gln Tyr Pro Leu Gln		
275	280	285
Thr Phe Ala Ile Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala Arg		
290	295	300
Lys Val Ala Asp His Ile Gly Ser Glu His Tyr Glu Val Leu Phe Asn		
305	310	315
Ser Glu Glu Gly Ile Gln Ala Leu Asp Glu Val Ile Phe Ser Leu Glu		
325	330	335
Thr Tyr Asp Ile Thr Thr Val Arg Ala Ser Val Gly Met Tyr Leu Ile		
340	345	350
Ser Lys Tyr Ile Arg Lys Asn Thr Asp Ser Val Val Ile Phe Ser Gly		
355	360	365
Glu Gly Ser Asp Glu Leu Thr Gln Gly Tyr Ile Tyr Phe His Lys Ala		

5069

370					375					380					
Pro	Ser	Pro	Glu	Lys	Ala	Glu	Glu	Glu	Ser	Glu	Arg	Leu	Leu	Arg	Glu
385					390					395					400
Leu	Tyr	Leu	Phe	Asp	Val	Leu	Arg	Ala	Asp	Arg	Thr	Thr	Ala	Ala	His
				405					410					415	
Gly	Leu	Glu	Leu	Arg	Val	Pro	Phe	Leu	Asp	His	Arg	Phe	Ser	Ser	Tyr
			420					425					430		
Tyr	Leu	Ser	Leu	Pro	Pro	Glu	Met	Arg	Ile	Pro	Lys	Asn	Gly	Ile	Glu
		435					440					445			
Lys	His	Leu	Leu	Arg	Glu	Thr	Phe	Glu	Asp	Ser	Asn	Leu	Ile	Pro	Lys
	450					455					460				
Glu	Ile	Leu	Trp	Arg	Pro	Lys	Glu	Ala	Phe	Ser	Asp	Gly	Ile	Thr	Ser
465				470					475						480
Val	Lys	Asn	Ser	Trp	Phe	Lys	Ile	Leu	Gln	Glu	Tyr	Val	Glu	His	Gln
			485					490					495		
Val	Asp	Asp	Ala	Met	Met	Ala	Asn	Ala	Ala	Gln	Lys	Phe	Pro	Phe	Asn
			500					505					510		
Thr	Pro	Lys	Thr	Lys	Glu	Gly	Tyr	Tyr	Tyr	Arg	Gln	Val	Phe	Glu	Arg
		515					520					525			
His	Tyr	Pro	Gly	Arg	Ala	Asp	Trp	Leu	Ser	His	Tyr	Trp	Met	Pro	Lys
	530					535					540				
Trp	Ile	Asn	Ala	Thr	Asp	Pro	Ser	Ala	Arg	Thr	Leu	Thr	His	Tyr	Lys
545				550					555						560
Ser	Ala	Val	Lys	Ala											
				565											

<210> 5779

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5779

5070

Cys Phe Ala Ser Asp Arg Ile Ser Leu His Arg Asp Leu Gly Pro Asp
 1 5 10 15
 Thr Arg Pro Pro Glu Cys Ile Glu Gln Lys Phe Lys Arg Cys Pro Pro
 20 25 30
 Leu Pro Thr Thr Ser Val Ile Ile Val Phe His Asn Glu Ala Trp Ser
 35 40 45
 Thr Leu Leu Arg Thr Val His Ser Val Leu Tyr Ser Ser Pro Ala Ile
 50 55 60
 Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Ala Ser Val Asp Glu Tyr
 65 70 75 80
 Leu His Asp Lys Leu Asp Glu Tyr Val Lys Gln Phe Ser Ile Val Lys
 85 90 95
 Ile Val Arg Gln Arg Glu Arg Lys Gly Leu Ile Thr Ala Xaa Leu Leu
 100 105 110
 Gly Ala Thr Val Ala Thr Ala Glu Thr Leu Thr Phe Leu Asp Ala His
 115 120 125
 Cys Glu Cys Phe Tyr Gly Trp Leu Glu Pro Leu Leu Ala Arg Ile Ala
 130 135 140
 Glu Asn Tyr Thr Ala Val Val Ser Pro Asp Ile Ala Ser Ile Asp Leu
 145 150 155 160
 Asn Thr Phe Glu Phe Asn Lys Pro Ser Pro Tyr Gly Lys
 165 170

<210> 5780

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5780

Glu Lys Leu Thr Asp Leu Asn Lys Trp Gly Ser Thr Pro Cys Ser Thr
 1 5 10 15
 Ile Gly Lys Leu Arg Ile Val Lys Met Ser Phe Leu Pro Lys Leu Ile
 20 25 30
 Tyr Lys Ser Gln Lys Thr Phe Phe Leu Gln Thr Leu Ile Lys Val Val
 35 40 45
 Phe

5071

<210> 5781
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5072

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5781

Ser	Cys	Lys	Lys	Asp	Met	Lys	Asn	Met	Asn	Tyr	Cys	Thr	Ser	His	Cys
1				5					10					15	

Tyr	Phe	His	Val	Gln	Tyr	Ser	Arg	Xaa	Ile	Leu	Thr	Thr	Ile	Asp	Xaa
			20					25					30		

Xaa	Leu	Lys	Xaa	Val	Xaa	Gly	Lys	Xaa	Xaa	Xaa	Ile	Leu	Xaa	Ile	Xaa
		35					40					45			

Ile	Ala	Xaa	Glu	Arg	Arg	Ile	Gln	Gly	Pro	Glu	Xaa	Gly	Ala	Thr	
		50				55					60				

<210> 5782

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5782

Met	Arg	Arg	Val	Ile	Leu	His	Ser	Pro	Leu	Met	Ser	Gly	Leu	Arg	Val
1				5					10					15	

Ala	Phe	Pro	Asp	Thr	Arg	Lys	Thr	Tyr	Cys	Phe	Asp	Ala	Phe	Pro	Ser
			20					25					30		

Ile	Asp	Lys	Ile	Ser	Lys	Val	Thr	Ser	Pro	Val	Leu	Val	Ile	His	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5073

35 40 45
 Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu
 50 55 60
 Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His
 65 70 75 80
 Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe
 85 90 95
 Ile Ser His Glu Leu Pro Asn Ser
 100

<210> 5783

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5783

Ser Phe Arg Leu Xaa Cys Glu Leu Arg Arg Cys Met Xaa Gly Asn Asn
 1 5 10 15

Met Ser Thr Pro Leu Pro Ala Ile Val Pro Ala Ala Arg Lys Ala Thr
 20 25 30

Ala Ala Val Ile Phe Leu His Gly Leu Gly Xaa Thr Gly Pro Val Arg
 35 40 45

Pro Val Thr Leu Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile
 50 55 60

Ile Gly Leu Ser Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln
 65 70 75 80

5075

Ser	Gly	Ile	Ile	Phe	Ala	Gly	His	Asp	Lys	Trp	Ser	Leu	Asp	Pro	Arg	35	40	45	
Val	Glu	Leu	Glu	Lys	Arg	His	Ser	Leu	Glu	Tyr	Ser	Leu	Arg	Ile	Gln	50	55	60	
Lys	Val	Asp	Val	Tyr	Asp	Glu	Gly	Ser	Tyr	Thr	Cys	Ser	Val	Gln	Thr	65	70	75	80
Gln	His	Glu	Pro	Lys	Thr	Ser	Gln	Val	Tyr	Leu	Ile	Val	Gln	Val	Pro	85	90	95	
Pro	Lys	Ile	Ser	Asn	Ile	Ser	Ser	Asp	Val	Thr	Val	Asn	Glu	Gly	Ser	100	105	110	
Asn	Val	Thr	Leu	Val	Cys	Met	Ala	Asn	Gly	Xaa	Pro	Glu	Pro	Val	Ile	115	120	125	
Thr	Trp	Arg	His	Leu	Thr	Pro	Xaa	Gly	Arg	Glu	Phe	Glu	Gly	Glu	Glu	130	135	140	
Glu	Tyr	Leu	Glu	Ile	Leu	Gly	Ile	Thr	Arg	Glu	Gln	Ser	Gly	Lys	Tyr	145	150	155	160
Glu	Cys	Lys	Ala	Ala	Asn	Glu	Val	Ser	Ser	Ala	Asp	Val	Lys	Gln	Val	165	170	175	
Lys	Val	Thr	Val	Asn	Tyr	Pro	Pro	Thr	Ile	Thr	Glu	Ser	Lys	Ser	Asn	180	185	190	
Glu	Ala	Thr	Thr	Gly	Arg	Gln	Ala	Ser	Leu	Lys	Cys	Glu	Ala	Ser	Ala	195	200	205	
Val	Pro	Ala	Pro	Asp	Phe	Glu	Trp	Tyr	Arg	Asp	Asp	Thr	Arg	Ile	Asn	210	215	220	
Ser	Ala	Asn	Gly	Leu	Glu	Ile	Lys	Ser	Thr	Glu	Gly	Gln	Ser	Ser	Leu	225	230	235	240
Thr	Val	Thr	Asn	Val	Thr	Glu	Glu	His	Tyr	Gly	Asn	Tyr	Thr	Cys	Val	245	250	255	
Ala	Ala	Asn	Lys	Leu	Gly	Val	Thr	Asn	Ala	Ser	Leu	Val	Leu	Phe	Lys	260	265	270	
Arg	Val	Leu	Pro	Thr	Ile	Pro	His	Pro	Ile	Gln	Glu	Ile	Gly	Thr	Thr	275	280	285	
Val	His	Phe	Lys	Gln	Lys	Gly	Pro	Gly	Ser	Val	Arg	Gly	Ile	Asn	Gly	290	295	300	

5076

Ser Ile Ser Leu Ala Val Pro Leu Trp Leu Leu Ala Ala Ser Leu Leu
 305 310 315 320

Cys Leu Leu Ser Lys Cys
 325

<210> 5785

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5785

Pro Thr Arg Pro Ala Glu Lys Asp Pro Gly Arg Ser Ala Pro Gly Ala
 1 5 10 15

Ala Ser Ala Ala Ala Ala Leu Lys Gln Leu Gly Asp Ser Pro Ala Glu
 20 25 30

Asp Lys Ser Ser Phe Lys Pro Tyr Ser Lys Gly Ser Gly Gly Gly Asp
 35 40 45

Ser Arg Lys Asp Ser Gly Ser Ser Ser Val Ser Ser Thr Ser Ser Ser
 50 55 60

Ser Ser Ser Ser Pro Gly Asp Lys Ala Gly Phe Xaa Val Pro Ser Ala
 65 70 75 80

Ala Cys Pro Pro Phe Pro Pro His Gly Ala Pro Val Ser Ala Ser Ser

5077

	85		90		95
Ser Ser Ser Ser Pro Gly Gly Ser Arg Gly Gly Ser Pro His His Ser	100		105		110
Asp Cys Lys Asn Gly Gly Gly Val Gly Gly Gly Glu Leu Asp Lys Lys	115		120		125
Asp Gln Glu Pro Lys Pro Ser Pro Glu Pro Ala Ala Val Ser Arg Gly	130		135		140
Gly Gly Gly Glu Pro Gly Ala His Gly Gly Ala Glu Ser Gly Ala Ser	145		150		155
Gly Arg Lys Ser Glu Pro Pro Ser Ala Leu Val Gly Ala Gly His Val	165		170		175
Ala Pro Val Ser Pro Thr Ser Arg Ala Thr Arg Cys Ser Arg Xaa Arg	180		185		190
Leu Gln His Trp Leu Pro Arg Leu His Arg Gly Arg Leu Arg Arg Xaa	195		200		205
Pro Val Leu Ile Xaa Ala Trp Pro Gly	210		215		

<210> 5786

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5786

Pro Gln Lys Lys Tyr Phe Met Trp Val Phe Cys Phe Ser Leu Leu Asp	1	5	10	15
Phe Met Asp Glu Gly Ile Trp Leu Thr Phe Tyr Phe Leu Met Glu Gln	20	25	30	
Pro Val Phe Val Asn Tyr Ser Leu Val Asn Cys Glu Ile Leu Asn Ser	35	40	45	
Leu Pro Ala Ile Leu Val Leu Val Ser Gly Gln Ile Tyr Ala Val Val	50	55	60	
Leu Met Arg Leu Val	65			

5078

<210> 5787

<211> 145

<212> PRT

<213> Homo sapiens

<400> 5787

His Cys Ser Glu Gly His Ala Lys Ser Arg His Arg Ser Trp Gln Gln
 1 5 10 15

Glu Gly Asp Arg Ala Ser Pro Arg His Thr Ser Pro Gly Gly Asp Ser
 20 25 30

Gly Lys Glu Pro Arg Thr Gly Lys Asp Trp Val Gly Glu Gly Val Arg
 35 40 45

Gly Leu Val Val Thr Gln Ser Trp Arg Gly Ala Lys Ser Thr Gly Gly
 50 55 60

Tyr Pro Leu Ala Ala Ser Ala Leu Ala Val Cys Pro Phe Met Ser Gln
 65 70 75 80

Thr Ala Thr Thr Met Tyr Leu Gln Trp Gly Cys Arg Asp Gly Gly Asp
 85 90 95

Ser Ser Leu Thr Pro Gln Glu Leu Pro Gly Pro Lys Glu Glu Asn Ala
 100 105 110

Ala Ser Phe Gln Ser Gly Leu His Pro Leu Ser Gly Ser Leu Ser Ala
 115 120 125

Ser Cys Asn Ser Gly Cys Phe Ser Arg Leu Ser Ser Asn Ser Ala Pro
 130 135 140

Pro

145

<210> 5788

<211> 113

<212> PRT

<213> Homo sapiens

<400> 5788

Leu Arg Arg Pro Phe Leu Met Leu Leu Leu Asp Leu Met Ser Ser Pro
 1 5 10 15

Ser Pro Gln Leu Leu Val Ala Ala Ala Gln Gln Thr Leu Gly Met Gly
 20 25 30

Lys Arg Arg Ser Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu

5079

35 40 45
 Val Leu Ala Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys
 50 55 60
 Asn Cys Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys
 65 70 75 80
 Gly Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu
 85 90 95
 Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu Gln
 100 105 110
 Val

<210> 5789

<211> 32

<212> PRT

<213> Homo sapiens

<400> 5789

Lys Phe Ser Gln Ala Trp Trp His Met Pro Ile Val Pro Ala Ile Trp
 1 5 10 15
 Val Ala Lys Val Gly Glu Leu Leu Glu Pro Gly Arg Ser Arg Leu Gln
 20 25 30

<210> 5790

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5790

Val Tyr Lys Met Phe Ser Met Arg Asn Gln Glu Thr Tyr Thr Gly Leu
 1 5 10 15
 Thr Val Val Ser Tyr Met Ser Pro Gln Phe Gln Cys Ala Cys Ser Leu
 20 25 30
 Thr Ser Pro Phe Pro Asn Pro Ser Leu Leu Gly Cys Cys Phe Lys Val
 35 40 45

5080

Cys Pro Ser Pro Asn Leu Asp Phe Tyr Tyr Arg Ser Lys Ala Leu Ser
 50 55 60

Ile Leu Tyr
 65

<210> 5791

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5791

Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His
 1 5 10 15

Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala
 20 25 30

Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys
 35 40 45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn
 50 55 60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val
 65 70 75

<210> 5792

<211> 120

<212> PRT

<213> Homo sapiens

<400> 5792

Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys
 1 5 10 15

Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr
 20 25 30

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Arg Lys Cys
 35 40 45

Asn Val Arg His Thr Arg Lys Ala Asn Gln Cys Cys Lys Leu Lys Val
 50 55 60

Gln Phe Gln Arg Ser Leu Pro Thr Ala Gly Phe Phe Leu Tyr Phe Lys
 65 70 75 80

5081

Asn Ile Met Leu His Ile Ile Ala Ile Phe Ile Phe Trp Gly Phe Ala
 85 90 95

Thr Leu Ile Gln Trp Asn Gln Trp Lys Cys His Pro Ala Thr Glu Leu
 100 105 110

Pro Leu Leu Tyr Leu Lys Ser Phe
 115 120

<210> 5793

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5793

Leu Leu Gly Ser Cys Leu Gln Glu Ala Met Thr Leu Asn Ser Glu Pro
 1 5 10 15

Tyr Ser Val Leu Thr Ser Gly Ser His Val Phe Leu Cys Gln Val Ile
 20 25 30

Lys Tyr Leu Val Leu Val Phe Cys Leu Xaa Pro Lys Leu Pro Leu Trp
 35 40 45

Val His Arg Arg Leu Gly Ser Ile Val Arg Met Ala Ile Arg Glu Tyr
 50 55 60

Lys Xaa Gly Phe Ser Arg Ala Trp Glu Xaa Ile Leu Glu Pro Arg Arg

5082

65 70 75 80

Ala Xaa Pro Ala Leu Arg Ser Phe Gly Val Glu Met Gln Pro Trp Glu

 85 90 95

Ile Trp Gly Val Ser Arg Pro Val

 100

<210> 5794

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5794

Asp Leu Lys Arg Lys Ser Lys Ser Phe Tyr Tyr Asp Xaa Ile Pro Val

1 5 10 15

Glu Tyr Leu Lys Gly Thr Pro His Leu Asn Asn Gln Cys Lys Tyr Phe

 20 25 30

Leu Ser Lys Leu

 35

<210> 5795

<211> 96

<212> PRT

<213> Homo sapiens

<400> 5795

Ile Ala Arg Leu Val Gly Phe Ala Thr Cys Gly Ser Pro Arg Gly Ser

1 5 10 15

Lys Asn Gly Gly Arg Arg Gly Gly Gly Gly Pro Gly Arg Glu Trp Val

 20 25 30

Glu Leu Glu Pro Gln Lys Ser Ala Glu Leu Arg Gly Arg Ala Gly Arg

 35 40 45

Lys Gly Gly Gly Ala Ala Gly Ala Arg Gly His Pro Ala Ala Gly Cys

 50 55 60

Ser Asp Arg Gly Lys Cys Leu Glu Asn Cys Gly Leu Arg Cys Leu Tyr

5084

50	55	60
Cys Asn Phe Asn Pro Pro Ser Asn Leu Ile Ile Ser Gly Ser Phe Asp		
65	70	75 80
Glu Thr Val Lys Ile Trp Glu Val Lys Thr Gly Lys Cys Leu Lys Thr		
85	90	95
Leu Ser Ala His Ser Asp Pro Val Ser Ala Val His Phe Asn Cys Ser		
100	105	110
Gly Ser Leu Ile Val Ser Gly Ser Tyr Asp Gly Leu Cys Arg Ile Trp		
115	120	125
Asp Ala Ala Ser Gly Gln Cys Leu Lys Thr Leu Val Asp Asp Asp Asn		
130	135	140
Pro Pro Val Ser Phe Val Lys Phe Ser Pro Asn Gly Lys Tyr Ile Leu		
145	150	155 160
Thr Ala Thr Leu Asp Asn Thr Leu Lys Leu Trp Asp Tyr Ser Arg Gly		
165	170	175
Arg Cys Leu Lys Thr Tyr Thr Gly His Lys Asn Glu Lys Tyr Cys Ile		
180	185	190
Phe Ala Asn Phe Ser Val Thr Gly Gly Lys Trp Ile Val Ser Gly Ser		
195	200	205
Glu Asp Asn Arg Val Tyr Ile Trp Glu Pro Ser Asp		
210	215	220

<210> 5797

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5085

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5797

Asp Pro Arg Val Arg Thr Arg Xaa Pro Asn Met Tyr Gln Val Val Leu
 1 5 10 15

Leu Phe Val Val Val Pro Glu Leu Gln Glu His Gln Ser Lys Pro Ser
 20 25 30

Arg Pro Ser Pro Arg Val Ala Asp Asn Pro Glu Glu Gly Arg Glu Pro
 35 40 45

His Asn Asp Arg Pro Val Ser Met Ala Phe Gly Cys Gln Pro Glu His
 50 55 60

Val Tyr Ala Glu Cys Gly Lys Thr Tyr Arg Pro Pro Pro Thr Pro Lys
 65 70 75 80

Leu Phe Pro Gln Ser Thr Val Xaa Asn Thr Thr Pro Ser Phe Thr Ser
 85 90 95

Gly Thr Gln Glu Xaa Leu Phe Val Phe Leu Ile Ser Ile Ser Arg Arg
 100 105 110

Leu Phe Ser Thr Pro Leu Phe Leu Pro Pro Gln Phe Ala Ile Pro Leu
 115 120 125

Leu Ala Leu
 130

<210> 5798

<211> 239

<212> PRT

<213> Homo sapiens

<400> 5798

Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala
 1 5 10 15

Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala
 20 25 30

Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg
 35 40 45

Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val
 50 55 60

5086

Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu
65 70 75 80

Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro
85 90 95

Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe
100 105 110

Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser
115 120 125

Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp
130 135 140

Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala
145 150 155 160

Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg
165 170 175

Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu
180 185 190

Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly
195 200 205

Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr
210 215 220

Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu
225 230 235

<210> 5799

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5799

Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro
1 5 10 15

Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn
20 25 30

Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala
35 40 45

Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val

5087

50

55

60

Ile Phe

65

<210> 5800

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5800

Arg	His	Glu	Asp	Phe	Thr	Asp	Thr	Ala	Tyr	Leu	Phe	Lys	Ile	Gln	Ile
1				5				10					15		

Glu	Ser	Leu	Asn	Asp	Lys	Leu	Gln	Asn	Ala	Lys	Glu	Gln	Leu	Arg	Glu
			20					25					30		

Lys	Glu	Phe	Ile	Met	Leu	Gln	Asn	Glu	Gln	Glu	Ile	Ser	Gln	Leu	Lys
			35				40					45			

5088

Lys Glu Ile Glu Arg Thr Xaa Gln Arg Met Lys Glu Met Xaa Ser Val
 50 55 60

Met Lys Glu Gln Glu Gln Tyr Ile Ala Thr Gln Tyr Lys Glu Ala Ile
 65 70 75 80

Asp Leu Gly Gln Glu Leu Arg Leu Thr Arg Glu Gln Val Gln Asn Ser
 85 90 95

His Thr Glu Leu Ala Glu Ala Arg His Gln Gln Val Gln Ala Gln Arg
 100 105 110

Glu Ile Glu Arg Leu Ser Ser Glu Leu Glu Asp Met Lys Gln Leu Ser
 115 120 125

Lys Glu Lys Asp Ala His Gly Asn His Leu Ala Glu Glu Leu Gly Ala
 130 135 140

Ser Lys Gly Arg Glu Ala Tyr Leu Glu Ala Arg Met Gln Ala Glu Ile
 145 150 155 160

Lys Lys Leu Xaa Xaa Xaa Val Xaa Ile Ser Ser Lys Lys
 165 170

<210> 5801

<211> 719

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5801

Phe Lys Val Ile Phe Leu Leu Gln Asp Gly Ile Val Asn Pro Thr Ile
 1 5 10 15

Arg Lys Asp Leu Lys Thr Gly Pro Lys Phe Tyr Cys Cys Pro Ile Glu
 20 25 30

Gly Cys Pro Arg Gly Pro Glu Arg Pro Phe Ser Gln Phe Ser Leu Val
 35 40 45

Lys Gln His Phe Met Lys Met His Ala Glu Lys Lys His Lys Cys Ser
 50 55 60

Lys Cys Ser Asn Ser Tyr Gly Thr Glu Trp Asp Leu Lys Arg His Ala

5089

65		70		75		80
Glu Asp Cys Gly Lys Thr Phe Arg Cys Thr Cys Gly Cys Pro Tyr Ala						
	85		90		95	
Ser Arg Thr Ala Leu Gln Ser His Ile Tyr Arg Thr Gly His Glu Ile						
	100		105		110	
Pro Ala Glu His Arg Asp Pro Pro Ser Lys Lys Arg Lys Met Glu Asn						
	115		120		125	
Cys Ala Gln Asn Gln Lys Leu Ser Asn Lys Thr Ile Glu Ser Leu Asn						
	130		135		140	
Asn Gln Pro Ile Pro Arg Pro Asp Thr Gln Glu Leu Glu Ala Ser Glu						
	145		150		155	160
Ile Lys Leu Glu Pro Ser Phe Glu Asp Ser Cys Gly Ser Asn Thr Asp						
	165		170		175	
Lys Gln Thr Leu Thr Thr Pro Pro Arg Tyr Pro Gln Lys Leu Leu Leu						
	180		185		190	
Pro Lys Pro Lys Val Ala Leu Val Lys Leu Pro Val Met Gln Phe Ser						
	195		200		205	
Val Met Pro Val Phe Val Pro Thr Ala Asp Ser Ser Ala Gln Pro Val						
	210		215		220	
Val Leu Gly Val Asp Gln Gly Ser Ala Thr Gly Ala Val His Leu Met						
	225		230		235	240
Pro Leu Ser Val Gly Thr Leu Ile Leu Gly Leu Asp Ser Glu Ala Cys						
	245		250		255	
Ser Leu Lys Glu Ser Leu Pro Leu Phe Lys Ile Ala Asn Pro Ile Ala						
	260		265		270	
Gly Glu Pro Ile Ser Thr Gly Val Gln Val Asn Phe Gly Lys Ser Pro						
	275		280		285	
Ser Asn Pro Leu Gln Glu Leu Gly Asn Thr Cys Gln Lys Xaa Ser Ile						
	290		295		300	
Ser Ser Ile Asn Val Gln Thr Asp Leu Ser Tyr Ala Ser Gln Asn Phe						
	305		310		315	320
Ile Pro Ser Ala Gln Trp Ala Thr Ala Asp Ser Ser Val Ser Ser Cys						
	325		330		335	
Ser Gln Thr Asp Leu Ser Phe Asp Ser Gln Val Ser Leu Pro Ile Ser						

5090

340	345	350
Val His Thr Gln Thr Phe Leu Pro Ser Ser Lys Val Thr Ser Ser Ile		
355	360	365
Ala Ala Gln Thr Asp Ala Phe Met Asp Thr Cys Phe Gln Ser Gly Gly		
370	375	380
Val Ser Arg Glu Thr Gln Thr Ser Gly Ile Glu Ser Pro Thr Asp Asp		
385	390	395 400
His Val Gln Met Asp Gln Ala Gly Met Cys Gly Asp Ile Phe Glu Ser		
405	410	415
Val His Ser Ser Tyr Asn Val Ala Thr Gly Asn Ile Ile Ser Asn Ser		
420	425	430
Leu Val Ala Glu Thr Val Thr His Ser Leu Leu Pro Gln Asn Glu Pro		
435	440	445
Lys Thr Leu Asn Gln Asp Ile Glu Lys Ser Ala Pro Ile Ile Asn Phe		
450	455	460
Ser Ala Gln Asn Ser Met Leu Pro Ser Gln Asn Met Thr Asp Asn Gln		
465	470	475 480
Thr Gln Thr Ile Asp Leu Leu Ser Asp Leu Glu Asn Ile Leu Ser Ser		
485	490	495
Asn Leu Pro Ala Gln Thr Leu Asp His Arg Ser Leu Leu Ser Asp Thr		
500	505	510
Asn Pro Gly Pro Asp Thr Gln Leu Pro Ser Gly Pro Ala Gln Asn Pro		
515	520	525
Gly Ile Asp Phe Asp Ile Glu Glu Phe Phe Ser Ala Ser Asn Ile Gln		
530	535	540
Thr Gln Thr Glu Glu Ser Glu Leu Ser Thr Met Thr Thr Glu Pro Val		
545	550	555 560
Leu Glu Ser Leu Asp Ile Glu Thr Gln Thr Asp Phe Leu Leu Ala Asp		
565	570	575
Thr Ser Ala Gln Ser Tyr Gly Cys Arg Gly Asn Ser Asn Phe Leu Gly		
580	585	590
Leu Glu Met Phe Asp Thr Gln Thr Gln Thr Asp Leu Asn Phe Phe Leu		
595	600	605
Asp Ser Ser Pro His Leu Pro Leu Gly Ser Ile Leu Lys His Ser Ser		

5091

610		615		620											
Phe	Ser	Val	Ser	Thr	Asp	Ser	Ser	Asp	Thr	Glu	Thr	Gln	Thr	Glu	Gly
625					630					635				640	
Val	Ser	Thr	Ala	Lys	Asn	Ile	Pro	Ala	Leu	Glu	Ser	Lys	Val	Gln	Leu
				645					650					655	
Asn	Ser	Thr	Glu	Thr	Gln	Thr	Met	Ser	Ser	Gly	Phe	Glu	Thr	Leu	Gly
			660					665					670		
Ser	Leu	Phe	Phe	Thr	Ser	Asn	Glu	Thr	Gln	Thr	Ala	Met	Asp	Asp	Phe
		675					680					685			
Leu	Leu	Ala	Asp	Leu	Ala	Trp	Asn	Thr	Met	Glu	Ser	Gln	Phe	Ser	Ser
	690					695					700				
Val	Glu	Thr	Gln	Thr	Ser	Ala	Glu	Pro	His	Thr	Val	Ser	Asn	Phe	
705					710					715					

<210> 5802

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5802

Asn	Ser	Xaa	Met	Gln	Xaa	Pro	Glu	Trp	His	Phe	Ala	Thr	Leu	Ser	His
1				5					10					15	

5092

Ala Leu Ile Ala Phe Gln Asn Glu Ser Tyr Leu Arg Gln Leu Leu Trp
 20 25 30

Val Lys Ser Xaa Leu Tyr Ser Arg Val Arg Leu Leu Gly Val Cys Leu
 35 40 45

Tyr Xaa Lys Arg Gly Gly Leu Ser
 50 55

<210> 5803

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5803

Ser Val Ala Cys Lys Glu Lys Lys Met Ala Ser Asp Ile Trp Tyr Lys
 1 5 10 15

Leu Leu Asn Arg Ile Ile Arg Ala Ser Phe Val Lys Pro Ala Phe Lys
 20 25 30

Cys Trp Thr Ala Ser Lys Ser Val Cys Phe Xaa Ser Ser Val Pro Tyr
 35 40 45

Thr Lys Lys Gln Leu Leu Pro Ser Tyr Tyr Ile Cys
 50 55 60

<210> 5804

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5804

Phe Thr Gln Tyr Gly Ala Ala Cys Phe Cys Asp Phe Lys Ile Asp Gln
 1 5 10 15

Gly Thr Phe Ala Phe Glu Glu Arg Asn Phe Leu Gly Leu Val Thr Arg
 20 25 30

Ala Val Asp Val Pro Lys Ser Lys Asp Val Cys Cys Pro Trp Val Ser
 35 40 45

5093

His Cys Arg Phe Ile Thr Trp
 50 55

<210> 5805

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5805

Ala Arg Gln Thr Gly Leu Glu Asp Pro Leu Arg Leu Arg Arg Ala Glu
 1 5 10 15

Ser Thr Arg Arg Val Leu Gly Leu Glu Leu Asn Lys Asp Arg Asp Val
 20 25 30

Glu Arg Ile His Gly Gly Gly Ile Asn Thr Leu Asp Ile Glu Pro Val
 35 40 45

Glu Gly Arg Tyr Met Leu Ser Gly Gly Ser Asp Gly Val Ile Val Leu
 50 55 60

Tyr Asp Leu Glu Asn Ser Ser Arg Gln Ser Tyr Tyr Thr Cys Lys Ala
 65 70 75 80

Val Cys Ser Ile Gly Arg Asp His Pro Asp Val His Arg Tyr Ser Val
 85 90 95

Glu Thr Val Gln Trp Tyr Pro His Asp Thr Gly Met Phe Thr Ser Ser
 100 105 110

Ser Phe Asp Lys Thr Leu Lys Val Trp Asp Thr Asn Thr Leu Gln Thr
 115 120 125

Ala Asp Val Phe Asn Phe Glu Glu Thr Val Tyr Ser His His Met Ser
 130 135 140

Pro Val Ser Thr Lys His Cys Leu Val Ala Val Gly Thr Arg Gly Pro
 145 150 155 160

Lys Val Gln Leu Cys Asp Leu Lys Ser Gly Ser Cys Ser His Ile Leu
 165 170 175

Gln Gly His Arg Gln Glu Ile Leu Ala Val Ser Trp Ser Pro Arg Tyr
 180 185 190

5094

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Asp Tyr Ile Leu Ala Thr Ala Ser Ala Asp Ser Arg Val Lys Leu Trp
    195                      200                      205

Asp Val Arg Arg Ala Ser Gly Cys Leu Ile Thr Leu Asp Gln His Asn
    210                      215                      220

Gly Lys Lys Ser Gln Ala Val Glu Ser Ala Asn Thr Ala His Asn Gly
    225                      230                      235                      240

Lys Val Asn Gly Leu Cys Phe Thr Ser Asp Gly Leu His Leu Leu Thr
                245                      250                      255

Val Gly Thr Asp Asn Arg Met Arg Leu Trp Asn Ser Ser Asn Gly Glu
                260                      265                      270

Asn Thr Leu Val Asn Tyr Gly Lys Val Cys Asn Asn Ser Lys Lys Gly
                275                      280                      285

Leu Lys Phe Thr Val Ser Cys Gly Cys Ser Ser Glu Phe Val Phe Val
    290                      295                      300

Pro Tyr Gly Ser Thr Ile Ala Val Tyr Thr Val Tyr Ser Gly Glu Gln
    305                      310                      315                      320

Ile Thr Met Leu Lys Gly His Tyr Lys Thr Val Asp Cys Cys Val Phe
                325                      330                      335

Gln Ser Asn Phe Gln Val Leu Tyr Ser Gly Ser Arg Asp Cys Asn Ile
                340                      345                      350

Leu Ala Trp Val Pro Xaa Leu Tyr Glu Pro Val Pro Asp Asp Gly
    355                      360                      365

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<210> 5806

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

5095

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5806

Lys	Lys	Xaa	Gly	Leu	Asn	Arg	Pro	Pro	Phe	Gly	Ala	Gln	Arg	Arg	Val
1				5					10					15	

Leu	Thr	Pro	Arg	Gly	Gly	Phe	Pro	Pro	Gly	Gly	Xaa	Lys	Ile	Phe	Ser
			20					25					30		

Pro	Pro	Pro	Gly	Gly	Gly	Phe	Pro	Gly	Lys	Pro	Pro	Pro	Lys	Thr	Gly
		35					40					45			

Ala	Arg	Xaa	Phe	Pro	Pro	Gly	Gly	Gly	Pro	Phe	Pro	Lys	Phe	Phe	Phe
	50					55					60				

Ala	Gln	Asn	Xaa	Ser	Gln	Lys	Ile
65					70		

<210> 5807

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5807

His	Gly	Val	Arg	Arg	Arg	Leu	Arg	Val	Thr	Arg	Gln	Arg	Ala	Thr	Ala
1					5				10					15	

Leu	Val	Gln	Ser	Ala	Arg	Val	Arg	Arg	Trp	Lys	Arg	Ser	Arg	Arg	Asn
			20					25					30		

Pro	Gln	Ile	Ala	Pro	Phe	Pro	Arg	Asp	Leu	Ser	Gly	Xaa	Arg	Ala	Thr
		35					40					45			

Ala	Gln	Pro	Arg	Ala	Pro	Ala	Leu	Arg	Pro	Arg	His	Thr	Pro	Gln	Ser
	50					55					60				

5096

Ser Ser Ser Gly Ser Ala Pro Thr Pro Arg Arg Asp Gln Pro Ala Arg
 65 70 75 80

Gly Gly Leu Thr Ala Pro Ser Ser Gln Glu Gly Thr Gln Arg Thr Thr
 85 90 95

Glu Pro His Ser Ala Pro Arg Ser Pro Leu Trp Leu Leu Ala Ser Arg
 100 105 110

Pro Thr Arg Ala Ala Met Val Thr Ser Pro Pro Pro Leu
 115 120 125

<210> 5808

<211> 227

<212> PRT

<213> Homo sapiens

<400> 5808

Lys Met Asp Trp Gly Thr Leu Gln Thr Ile Leu Gly Gly Val Asn Lys
 1 5 10 15

His Ser Thr Ser Ile Gly Lys Ile Trp Leu Thr Val Leu Phe Ile Phe
 20 25 30

Arg Ile Met Ile Leu Val Val Ala Ala Lys Glu Val Trp Gly Asp Glu
 35 40 45

Gln Ala Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val
 50 55 60

Cys Tyr Asp His Tyr Phe Pro Ile Ser His Ile Arg Leu Trp Ala Leu
 65 70 75 80

Gln Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val
 85 90 95

Ala Tyr Arg Arg His Glu Lys Lys Arg Lys Phe Ile Lys Gly Glu Ile
 100 105 110

Lys Ser Glu Phe Lys Asp Ile Glu Glu Ile Lys Thr Gln Lys Val Arg
 115 120 125

Ile Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg
 130 135 140

Val Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Val Met Tyr Asp
 145 150 155 160

Gly Phe Ser Met Gln Arg Leu Val Lys Cys Asn Ala Trp Pro Cys Pro

5097

	165		170		175
Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe					
	180		185		190
Thr Val Phe Met Ile Ala Val Ser Gly Ile Cys Ile Leu Leu Asn Val					
	195		200		205
Thr Glu Leu Cys Tyr Leu Leu Ile Arg Tyr Cys Ser Gly Lys Ser Lys					
	210		215		220
Lys Pro Val					
225					

<210> 5809

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

5098

<400> 5809

Ala Thr Val Pro Ile Arg Pro Asn Phe Thr Gly Lys Ser Ser Tyr Arg
 1 5 10 15
 Val Tyr Lys Leu Pro Ile Ser Gly Glu Thr Phe Asn Arg Glu Lys Phe
 20 25 30
 Arg Ser Gln Asp Trp Glu Asn Pro Thr Glu Arg Glu Asp Asp Ser Asp
 35 40 45
 Lys Tyr Cys Lys Leu Asn Leu Gln Gln Ser Gly Ser Phe Gln Tyr Tyr
 50 55 60
 Xaa Leu Gln Gly Asn Glu Lys Xaa Gly Gly Xaa Tyr Ile Val Val Xaa
 65 70 75 80
 Pro Ile Leu Arg Val Xaa Ala Asp Asn His Val Leu Pro Leu Asp Cys
 85 90 95
 Val Thr Leu Gln Thr Phe Leu Ala Lys Cys Leu Gly Pro Phe Asp Glu
 100 105 110
 Trp Glu Ser Arg Leu Arg Val Ala Lys Glu Ser Gly Tyr Asn Met Ile
 115 120 125
 His Phe Thr Pro Leu Gln Thr Leu Gly Leu Ser Arg Ser Cys Tyr Ser
 130 135 140
 Leu Ala Asn Gln Leu Glu Leu Asn Pro Asp Phe Ser Arg Pro Asn Arg
 145 150 155 160
 Lys Tyr Thr Trp Asn Xaa Val Gly Gln Leu Val Glu Lys Leu Lys Lys
 165 170 175
 Glu Trp Ile Val Phe Cys Ile Thr Asp Val Val Tyr Asn His Thr Ala
 180 185 190
 Ala Asn Ser Asn Cys Ile Gln Glu His Pro Glu Cys Ala Tyr Ile Leu
 195 200 205
 Val Ile Ser Pro His
 210

<210> 5810

<211> 67

<212> PRT

<213> Homo sapiens

<220>

5099

<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5810
Gly Val His Tyr Cys Glu Phe Ile Ile Leu Lys Val Gly Asp Ala Lys
1 5 10 15
Ser Thr Arg Leu Lys Xaa Tyr Glu Val Phe Ser Ser Phe Asn Ser Ile
20 25 30
Leu Leu Glu Lys Asn Xaa His Asn Arg Gly Ser Phe Thr Phe Pro Gln
35 40 45
Pro Ser Arg Leu Leu Tyr Cys Asn Val Gly Lys Ile Ala Tyr Asn Lys
50 55 60
Asn Cys Ser
65

<210> 5811
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5811
Val Arg Ala Gly Pro Ala Ala Ala Gly Pro Arg Pro Gly Ala Glu Arg
1 5 10 15

5100

Lys Cys Trp Ser Leu Arg Ser Leu Arg Pro Leu Gly Gly Arg Cys Ala
 20 25 30
 Trp Pro Gly Thr Ser Ala Pro Ala His Arg Pro Gly Ala Ala Glu Gly
 35 40 45
 Arg Pro Arg Gly Pro Val Pro Ala Glu Pro Arg Pro Cys Pro Leu Ala
 50 55 60
 Leu Leu Ser Gly His Tyr Leu Tyr Tyr His Tyr Gly Cys Asp Gly Leu
 65 70 75 80
 Asp Asp Arg Gly Trp Gly Cys Gly Tyr Arg Thr Leu Gln Thr Leu Cys
 85 90 95
 Ser Trp Pro Glu Gly Gln Pro Ala Gly Val Pro Gly Leu Ala Ala Val
 100 105 110
 Gln Ala Ala Leu Glu Asp Met Gly Asp Lys Pro Pro Gly Phe Arg Gly
 115 120 125
 Ser Arg Asp Trp Ile Gly Cys Val Glu Ala Ser Leu Cys Leu Ala His
 130 135 140
 Phe Gly Gly Pro Gln Gly Arg Leu Cys His Val Pro Arg Gly Val Gly
 145 150 155 160
 Leu His Gly Glu Xaa Glu Arg Leu Tyr Ser His Phe Ala Gly Gly Gly
 165 170 175
 Gly Pro Val Met Val Gly Gly Asp Xaa Asp Ala Arg Ser Lys Ala Leu
 180 185 190
 Leu Gly Xaa Cys Val Gly Ser Gly Thr Glu Ala Tyr Val Leu Val Leu
 195 200 205
 Asp Pro His Tyr Trp Gly Thr Pro Lys Ser Pro Ser Glu Leu Gln Ala
 210 215 220
 Ala Gly Trp Val Gly Trp Gln Glu Val Ser Ala Ala Phe Asp Pro Asn
 225 230 235 240
 Ser Phe Tyr Asn Leu Cys Leu Thr Ser Leu Ser Ser Gln Gln Gln Gln
 245 250 255
 Arg Thr Leu Asp
 260

5101

<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (269)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (310)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (319)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5812
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Phe Gln Ala Leu

5102

1	5	10	15
Ile Asp Ile Gln Glu Phe Tyr Glu Val Thr Leu Leu Asp Asn Pro Lys	20	25	30
Cys Ile Asp Arg Ser Lys Pro Ser Glu Pro Ile Gln Pro Val Asn Thr	35	40	45
Trp Glu Ile Ser Ser Leu Pro Ser Ser Thr Val Thr Ser Glu Thr Leu	50	55	60
Pro Ser Ser Leu Ser Pro Ser Val Glu Lys Tyr Arg Tyr Gln Asp Glu	65	70	75
Asp Thr Pro Pro Gln Glu His Ile Ser Pro Gln Ile Thr Asn Glu Val	85	90	95
Ile Gly Pro Glu Leu Val His Val Ser Glu Lys Asn Leu Ser Glu Ile	100	105	110
Glu Asn Val His Gly Phe Val Ser His Ser His Ile Ser Pro Ile Lys	115	120	125
Pro Thr Glu Ala Val Leu Pro Ser Pro Pro Thr Val Pro Val Ile Pro	130	135	140
Val Leu Pro Val Pro Ala Glu Asn Thr Xaa Ile Leu Pro Thr Ile Pro	145	150	155
Gln Ala Asn Pro Pro Xaa Val Leu Val Asn Thr Asp Ser Leu Glu Thr	165	170	175
Pro Thr Tyr Val Asn Gly Thr Asp Ala Asp Tyr Glu Tyr Glu Glu Ile	180	185	190
Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly	195	200	205
Thr Asp Asn Pro His Ile Gly Asp Asp Ser Ser Ile Phe Ile Thr Lys	210	215	220
Ile Ile Thr Gly Gly Ala Ala Ala Gln Asp Gly Arg Leu Arg Val Asn	225	230	235
Asp Cys Ile Leu Arg Val Asn Glu Val Asp Val Arg Asp Val Thr His	245	250	255
Ser Lys Ala Val Glu Ala Leu Lys Glu Ala Gly Ser Xaa Val Arg Leu	260	265	270
Tyr Val Lys Arg Arg Lys Pro Val Ser Glu Lys Ile Met Glu Ile Lys			

5103

275	280	285
Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Xaa Ile Ala Gly Gly Val		
290	295	300
Gly Asn Gln His Ile Xaa Gly Asp Asn Ser Ile Tyr Val Thr Xaa Ile		
305	310	315
Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp		
325	330	335
Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu		
340	345	350
Glu Ala Val Xaa Ala Leu Lys Ser Thr Ser Xaa Phe		
355	360	

<210> 5813

<211> 277

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5813

Gly Ser Cys Ser Ser Arg Cys Asp Ser Arg Asn Gln Arg His Leu Arg			
1	5	10	15
Val Ser Arg Lys Pro Pro Phe Val Val Ser Arg Thr Glu Gly Tyr Ile			
20	25	30	
Gly Val Leu Ile Asp Asp Leu Thr Thr Leu Gly Thr Xaa Glu Pro Tyr			
35	40	45	
Arg Met Phe Thr Ser Arg Val Glu Phe Arg Leu Ser Leu Arg Pro Asp			
50	55	60	
Asn Ala Asp Ser Arg Leu Thr Leu Arg Gly Tyr Lys Asp Ala Gly Cys			
65	70	75	80
Val Ser Gln Gln Arg Tyr Glu Arg Ala Cys Trp Met Lys Ser Ser Leu			
85	90	95	
Glu Glu Gly Ile Ser Val Leu Lys Ser Ile Glu Phe Leu Ser Ser Lys			
100	105	110	

5104

Trp Lys Lys Leu Ile Pro Glu Ala Ser Ile Ser Thr Ser Arg Ser Leu
 115 120 125
 Pro Val Arg Ala Leu Asp Val Leu Lys Tyr Glu Glu Val Asp Met Asp
 130 135 140
 Ser Leu Ala Lys Ala Val Pro Glu Pro Leu Lys Lys Tyr Thr Lys Cys
 145 150 155 160
 Arg Glu Leu Ala Glu Arg Leu Lys Ile Glu Ala Thr Tyr Glu Ser Val
 165 170 175
 Leu Phe His Gln Leu Gln Glu Ile Lys Gly Val Gln Gln Asp Glu Ala
 180 185 190
 Leu Gln Leu Pro Lys Asp Leu Asp Tyr Leu Thr Ile Arg Asp Val Ser
 195 200 205
 Leu Ser His Glu Val Arg Glu Lys Leu His Phe Ser Arg Pro Gln Thr
 210 215 220
 Ile Gly Ala Ala Ser Arg Ile Pro Gly Val Thr Pro Ala Ala Ile Ile
 225 230 235 240
 Asn Leu Leu Arg Phe Val Lys Thr Thr Gln Arg Arg Gln Ser Ala Met
 245 250 255
 Asn Glu Ser Ser Lys Thr Asp Gln Tyr Leu Cys Asp Ala Asp Arg Leu
 260 265 270
 Gln Glu Arg Glu Leu
 275

<210> 5814

<211> 36

<212> PRT

<213> Homo sapiens

<400> 5814

Ile Phe His Arg Val Leu Leu Cys Asp Leu Asn Phe Ser Leu Gly Pro
 1 5 10 15
 Ala Ser Asp Ile Val Gly Gly Leu Ser Trp Phe Gln Glu Ile Arg Leu
 20 25 30
 Ala Phe Ser Ser
 35

5105

<210> 5815

<211> 160

<212> PRT

<213> Homo sapiens

<400> 5815

Ala	Gly	Ser	Gln	Glu	Ser	Ala	Lys	Ala	Leu	Met	Ile	Arg	Glu	Lys	Tyr
1				5					10					15	

Ala	Gly	Ser	Pro	Thr	His	Leu	Pro	Ala	Asp	His	Ile	Pro	Val	Pro	Gly
			20					25					30		

Ser	Ser	Arg	Ala	Asp	Thr	Ala	Pro	Pro	Glu	Glu	Gly	Leu	Pro	Asp	Phe
		35					40					45			

His	Pro	Pro	Pro	Leu	Pro	Gln	Glu	Asp	Pro	Tyr	Cys	Leu	Asp	Asp	Ala
50						55					60				

Pro	Pro	Asn	Leu	Asp	Tyr	Leu	Val	His	Met	Gln	Gly	Gly	Ile	Leu	Phe
65					70					75					80

Val	Tyr	Asp	Asn	Lys	Lys	Met	Leu	Glu	His	Gln	Glu	Pro	His	Ser	Leu
				85					90					95	

Pro	Tyr	Pro	Asp	Leu	Glu	Thr	Tyr	Thr	Val	Asp	Met	Ser	His	Ile	Leu
			100					105					110		

Ala	Leu	Ile	Thr	Asp	Gly	Pro	Thr	Lys	Thr	Tyr	Cys	His	Arg	Arg	Leu
		115					120					125			

Asn	Phe	Leu	Glu	Ser	Lys	Phe	Ser	Leu	His	Glu	Met	Leu	Asn	Glu	Met
	130					135					140				

Ser	Glu	Phe	Lys	Glu	Leu	Lys	Ser	Asn	Pro	His	Arg	Asp	Phe	Tyr	Asn
145					150					155					160

<210> 5816

<211> 71

<212> PRT

<213> Homo sapiens

<400> 5816

Lys	Thr	Lys	Tyr	Leu	Leu	Trp	Asp	Lys	Ile	Leu	Tyr	Ala	Tyr	Leu	Glu
1				5					10					15	

5106

Tyr Trp Glu Asp Gly Lys Glu Tyr Lys Glu Lys Asn Asn Cys Thr Pro
20 25 30

His Ser Arg His Asn Leu Leu Phe Thr Ser Leu Gly Cys Ile Ser Ile
35 40 45

Pro Thr Arg Trp Asn His Leu Tyr Val Tyr Leu Ile Arg Ile Met Leu
50 55 60

His Thr Val Leu Phe Pro Ser
65 70

<210> 5817

<211> 23

<212> PRT

<213> Homo sapiens

<400> 5817

Lys Lys Ala Trp Glu Pro Val Cys Phe Glu Arg Thr Asp Asp Ile Gly
1 5 10 15

Arg Ala Leu Glu Val Pro Gly
20

<210> 5818

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

5107

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5818

Pro	His	Pro	Thr	Xaa	Trp	Xaa	Gln	Leu	Glu	Glu	Xaa	Cys	Arg	Arg	Leu
1				5					10					15	
Ala	Glu	Val	Ser	Lys	Pro	Pro	Lys	Gln	Arg	Cys	Cys	Val	Ala	Ser	Gln
			20					25					30		
Gln	Arg	Asp	Arg	Asn	His	Ser	Ala	Thr	Val	Gln	Thr	Gly	Ala	Thr	Xaa
		35					40					45			
Phe	Ser	Asn	Pro	Ser	Leu	Ala	Pro	Glu	Asp	His	Lys	Glu	Pro	Lys	Lys
	50					55					60				
Leu	Ala	Gly	Val	His	Ala	Leu	Gln	Ala	Ser	Glu	Leu	Val	Val	Thr	Tyr
65					70					75					80
Phe	Phe	Cys	Gly	Glu	Glu	Ile	Pro	Tyr	Arg	Arg	Met	Leu	Lys	Ala	Gln
				85					90					95	
Ser	Leu	Thr	Leu	Gly	His	Phe	Lys	Glu	Gln	Leu	Ser	Lys	Lys	Gly	Asn
			100					105					110		
Tyr	Arg	Tyr	Tyr	Phe	Lys	Lys	Ala	Ser	Asp	Glu	Phe	Ala	Cys	Gly	Ala
		115					120					125			
Val	Phe	Glu	Glu	Ile	Trp	Glu	Asp	Glu	Thr	Val	Leu	Pro	Met	Tyr	Glu
	130					135					140				
Gly	Arg	Ile	Leu	Gly	Lys	Val	Glu	Arg	Ile	Asp					
145					150					155					

<210> 5819

<211> 317

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5108

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (245)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5819

Met	Asn	Lys	Leu	Asn	Glu	Leu	Glu	Lys	Ile	Cys	Glu	Ile	Leu	Gln	Ala
1				5					10					15	

Glu	Lys	Tyr	Xaa	Leu	Val	Thr	Glu	Leu	Asn	Asp	Ser	Arg	Ser	Glu	Cys
			20					25					30		

Ile	Thr	Ala	Thr	Arg	Lys	Met	Ala	Glu	Glu	Val	Gly	Lys	Leu	Leu	Asn
		35					40					45			

Glu	Val	Lys	Ile	Leu	Asn	Asp	Asp	Ser	Gly	Leu	Leu	His	Gly	Glu	Leu
	50					55					60				

Val	Glu	Asp	Ile	Pro	Gly	Gly	Glu	Phe	Gly	Glu	Gln	Pro	Asn	Glu	Gln
65					70					75					80

His	Pro	Val	Ser	Leu	Ala	Pro	Leu	Asp	Glu	Ser	Asn	Ser	Tyr	Glu	His
				85					90					95	

Leu	Thr	Leu	Ser	Asp	Lys	Glu	Val	Gln	Met	His	Phe	Ala	Glu	Leu	Gln
			100					105					110		

Xaa	Lys	Phe	Xaa	Ser	Leu	Gln	Ser	Glu	His	Lys	Ile	Leu	His	Asp	Gln
		115					120					125			

His	Cys	Gln	Met	Ser	Ser	Lys	Met	Ser	Glu	Leu	Gln	Thr	Tyr	Val	Asp
	130					135					140				

Ser	Leu	Lys	Ala	Glu	Asn	Leu	Val	Leu	Ser	Thr	Asn	Leu	Arg	Asn	Phe
145					150					155					160

Gln	Gly	Asp	Leu	Val	Lys	Glu	Met	Gln	Leu	Gly	Leu	Glu	Glu	Gly	Leu
			165						170					175	

Val	Pro	Ser	Leu	Ser	Ser	Ser	Cys	Val	Pro	Asp	Ser	Ser	Ser	Leu	Ser
			180					185						190	

Ser	Leu	Gly	Asp	Ser	Ser	Phe	Tyr	Arg	Ala	Leu	Leu	Glu	Gln	Thr	Gly
		195					200					205			

Asp	Met	Ser	Leu	Leu	Ser	Asn	Leu	Glu	Gly	Ala	Val	Ser	Ala	Asn	Gln
	210					215					220				

5109

Cys Ser Val Asp Glu Val Phe Cys Ser Ser Leu Gln Glu Glu Asn Leu
 225 230 235 240

Thr Arg Lys Glu Xaa Pro Ser Ala Pro Ala Lys Gly Val Glu Glu Leu
 245 250 255

Glu Ser Leu Cys Glu Val Tyr Arg Gln Ser Leu Glu Lys Leu Glu Glu
 260 265 270

Lys Met Glu Ser Gln Gly Ile Met Lys Asn Lys Glu Ile Gln Glu Leu
 275 280 285

Glu Gln Leu Leu Ser Ser Glu Gly Lys Ser Leu Thr Ala Leu Gly Ala
 290 295 300

Val Phe Val Arg His Asp Ser Gly Thr Glu Leu Thr Ala
 305 310 315

<210> 5820

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5820

Pro Asn Trp Glu Lys Lys Cys Ile Arg Leu Ala Leu Xaa Thr Arg Glu
 1 5 10 15

Gln His Ile Arg Arg Asp Lys Ala Thr Ser Asn Ile Cys Thr Ala Gln
 20 25 30

Ala Leu Leu Ala Asn Met Ala Ala Met Phe Ala Ile Tyr His Gly Ser
 35 40 45

His Gly Leu Xaa His Ile Ala
 50 55

5110

<210> 5821

<211> 70

<212> PRT

<213> Homo sapiens

<400> 5821

```

Asn Gln Asn Lys Gly Gln Tyr Arg Lys Tyr His Gly Val Tyr Asn Lys
 1              5              10              15

Leu Asn Phe Trp Leu Pro Ile Gln Thr Gly Leu Asn Gly Met Phe Ile
          20              25              30

Leu Asn Lys Glu Phe Ala Met Asp Lys Ile Tyr Leu Ala Tyr Cys Glu
          35              40              45

Leu Glu Val Arg Pro Ala Val Thr Leu Val Phe Pro His Ser Met Glu
          50              55              60

Glu Glu Glu Arg Lys Thr
65              70

```

<210> 5822

<211> 465

<212> PRT

<213> Homo sapiens

<400> 5822

```

Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
 1              5              10              15

Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
          20              25              30

Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu
          35              40              45

Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Arg Leu Lys Cys Asp Ser
          50              55              60

Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg
65              70              75              80

Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn
          85              90              95

Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile
          100              105              110

Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr

```

5111

115	120	125
His Tyr Leu Ser Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg		
130	135	140
Lys Phe Ile Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile		
145	150	155
Ala Tyr Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu		
	165	170
Leu Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp		
	180	185
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile Ser		
	195	200
Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val Val Tyr		
	210	215
Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met Glu Asp Leu		
	225	230
Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn Thr Cys Gly Thr		
	245	250
Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val Gln Ala Leu Lys Met		
	260	265
Leu Asn Gly Arg Asn Ser Met Glu Ser Glu Val Pro Pro Lys His Lys		
	275	280
Glu Thr Arg Trp Lys Tyr His Phe Glu Val Val Arg Asp Thr Leu His		
	290	295
Leu Thr Asn Lys Lys Lys Asp Pro Pro Pro Tyr Asn Leu Thr Met Phe		
	305	310
Thr Gly Asn Ala Tyr Ile Val Ala Ser Arg Asp Phe Val Gln His Val		
	325	330
Leu Lys Asn Pro Lys Ser Gln Gln Leu Ile Glu Trp Val Lys Asp Thr		
	340	345
Tyr Ser Pro Asp Glu His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp		
	355	360
Met Pro Gly Ser Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met		
	370	375
Thr Ser Ile Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile		

5112

385 390 395 400
 Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala
 405 410 415
 Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
 420 425 430
 His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu
 435 440 445
 Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu
 450 455 460
 Leu
 465

<210> 5823

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5823

His Gln Pro His Gly Ser Pro Glu Leu Cys Trp Lys Val Glu Thr Gly
 1 5 10 15

Arg Glu Ala Ser His Gly Ser Xaa Glu Pro Asp Pro Thr Asn Gln Leu
 20 25 30

Ile Phe Lys Arg Gln Asp Gly Gly Arg Asp His Ser Arg Glu Pro Cys
 35 40 45

Ser Leu Phe Leu Pro Val Ala Lys Ser Gly Ala Arg Lys Ser Leu Ser
 50 55 60

Val
 65

<210> 5824

<211> 101

<212> PRT

<213> Homo sapiens

5113

<400> 5824

```

Asp Leu Gly Leu Glu Gly Trp Gly Met Gly Arg Glu Gly His Ser Leu
 1             5             10             15

Leu Leu His Glu Ser Asp Ile Ser Glu Thr Glu Gln Leu Pro Asp Ala
      20             25             30

Trp Val Arg Asn Pro Arg Pro His Leu Leu Arg Thr Gly Ser Ser Glu
      35             40             45

Ser Thr Leu Arg Glu Lys Gly Glu Asn Ile Thr Ser Val Asp Ser Pro
      50             55             60

Ala Thr Thr Ala Leu Glu Glu Lys Ala Ala Ala Thr Ser Gln Arg Gly
      65             70             75             80

Val Lys Asp Pro Cys Pro Arg Asn Arg Ala Ala Pro Pro Ala Leu Thr
      85             90             95

Pro Leu Thr Phe Ser
      100

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<210> 5825

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5825

```

His Val Ser Phe Ala Leu Leu Val Phe Tyr Val Ile Ser Phe Asn Cys
 1             5             10             15

Leu Leu His Leu Thr Val Tyr Ile Ile Gln Gln Phe Thr Ser Leu Asn
      20             25             30

Ser Arg Trp Lys Asn Arg Cys Gln Ser Met Lys Ile Phe Pro Ser Ile
      35             40             45

Ser Lys Tyr Phe Ser Arg Ile Tyr Phe Ser Lys Gln Thr Ile
      50             55             60

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<210> 5826

<211> 152

<212> PRT

<213> Homo sapiens

<220>

5114

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5826

Val	Leu	Glu	Leu	Asp	Gln	Glu	Glu	Leu	Gln	Leu	Gly	Arg	Gly	Gly	Ala
1				5					10					15	

Pro	Arg	Arg	Ala	Arg	Ala	Ala	Arg	Arg	Gly	Val	Leu	Leu	Leu	Ala	His
			20					25					30		

Arg	Glu	Pro	Pro	Pro	Ala	Arg	Ala	Glu	Ala	Pro	Ser	Arg	Gln	Ala	Ala
		35					40					45			

Cys	Leu	Pro	Pro	Leu	Ser	Ile	Ser	Pro	Glu	Ser	Gln	Pro	Gly	Ala	Pro
	50					55					60				

Gly	Pro	Leu	Pro	Leu	Ser	Gly	Trp	Arg	Ser	Ser	Arg	Pro	Leu	Pro	Val
65					70					75					80

Ser	Leu	Leu	Leu	Ser	Leu	Gly	Ser	Gln	Pro	Pro	Leu	Ser	Phe	Ser	Trp
				85					90					95	

Thr	Gly	Ser	His	Pro	Leu	Arg	Ser	Pro	Ser	Phe	Ser	Ser	Gly	Ser	Leu
			100					105					110		

Pro	Leu	Pro	Leu	Ala	His	Lys	Pro	Arg	Ser	Pro	Lys	Leu	Leu	Ser	His
		115						120				125			

Phe	Pro	Xaa	Pro	Lys	Val	Pro	Ala	Phe	Leu	Leu	Pro	Phe	Leu	Cys	Thr
	130						135				140				

Ile	Pro	Ile	Leu	Pro	Phe	Leu	Tyr
145					150		

<210> 5827

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5827

Pro	Ile	Glu	Ile	Glu	Arg	Cys	Glu	Pro	Val	Arg	Ser	Lys	Leu	Glu	Glu
1				5					10					15	

Val	Gln	Arg	Lys	Leu	Gly	Phe	Ala	Leu	Ser	Asp	Ile	Ser	Val	Val	Ser
			20					25					30		

Asn	Tyr	Ser	Ser	Glu	Trp	Glu	Leu	Asp	Pro	Val	Lys	Asp	Val	Leu	Ile
		35					40					45			

5115

Leu Ser Ala Leu Arg Arg Met Leu Trp Ala Ala Asp Asp Phe Leu Glu
 50 55 60

Asp Leu Pro Phe Glu Gln Ile Gly Asn Leu Arg Glu Glu Ile Ile Asn
 65 70 75 80

Cys Ala Gln Gly Lys Lys
 85

<210> 5828

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5828

Ala Thr Val His Pro Ala Cys Gln Ile Phe Pro His Tyr Thr Pro Ser
 1 5 10 15

Val Ala Tyr Pro Trp Ser Pro Glu Ala His Pro Leu Ile Cys Gly Pro
 20 25 30

Pro Gly Leu Asp Lys Arg Leu Leu Pro Glu Thr Pro Gly Pro Cys Tyr
 35 40 45

Ser Asn Ser Gln Pro Val Trp Leu Cys Leu Xaa Pro Arg Gln Pro Leu
 50 55 60

Glu Pro His Pro Pro Gly Glu Gly Pro Ser Glu Trp Ser Ser Asp Thr
 65 70 75 80

Ala Glu Gly Arg Pro Cys Pro Tyr Pro His Cys Gln Val Cys Arg Pro
 85 90 95

Ser Leu Ala Gln Arg Arg Asn Ser Arg Ser Cys Val Asn Arg Leu Cys
 100 105 110

Glu Met Phe Arg Pro Ser Ser Asn Gln Glu Cys Ala Pro Asp Val Phe
 115 120 125

Gly Pro Tyr Leu Ala Gln Ser Pro Ala Pro Gly Lys Gly Lys Asp His
 130 135 140

Ser Lys His His Ser Phe Cys Arg Thr Ser

5116

145

150

<210> 5829

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5829

Ile Phe Phe Leu Ile Ala Leu Leu Val Lys Ser Glu Lys Lys Asn Gln
1 5 10 15
Arg Arg Phe Glu Thr Gly Ala Leu Cys Ala Arg Met Thr Lys Cys Thr
20 25 30
Ser Phe Arg Val Cys Met Leu Val Asn Ser Gln Ile Tyr Leu Tyr Phe
35 40 45
Phe Ala Ser Ile Glu
50

<210> 5830

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5830

Lys Asn Phe Glu Ser Thr Tyr Asn Leu Glu Pro Pro Arg Ser Thr Phe
1 5 10 15
Glu Leu Ser Tyr Leu Ser Gly Gln Lys Gln Cys Gly Ser Cys Met Tyr
20 25 30
Leu Ile Asp Val Ser Cys Leu Pro Lys Met Tyr Thr Ile Arg Leu Cys
35 40 45
Pro Asp His Pro Gly His Met Phe Ser Gly Pro Pro Glu Val Ser Val
50 55 60
Ser Gly His Trp Ser Leu Arg Phe Gly Ser Glu
65 70 75

<210> 5831

<211> 356

<212> PRT

<213> Homo sapiens

5117

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5831

Ala	Leu	Leu	Ser	Trp	Glu	Met	Ser	Ala	Ala	Cys	Trp	Glu	Glu	Pro	Trp
1				5					10					15	

Gly	Leu	Pro	Gly	Gly	Phe	Ala	Lys	Xaa	Val	Leu	Val	Thr	Gly	Gly	Ala
			20					25					30		

Gly	Phe	Ile	Ala	Ser	His	Met	Ile	Val	Ser	Leu	Val	Glu	Asp	Tyr	Pro
		35					40					45			

Asn	Tyr	Met	Ile	Ile	Asn	Leu	Asp	Lys	Leu	Asp	Tyr	Cys	Ala	Ser	Leu
	50					55					60				

Lys	Asn	Leu	Glu	Thr	Ile	Ser	Asn	Lys	Gln	Asn	Tyr	Lys	Phe	Ile	Gln
65					70					75					80

Gly	Asp	Ile	Cys	Asp	Ser	His	Phe	Val	Lys	Leu	Leu	Phe	Glu	Thr	Glu
				85					90					95	

Lys	Ile	Asp	Ile	Val	Leu	His	Phe	Ala	Ala	Gln	Thr	His	Val	Asp	Leu
		100						105					110		

Ser	Phe	Val	Arg	Ala	Phe	Glu	Phe	Thr	Tyr	Val	Asn	Val	Tyr	Gly	Thr
		115					120					125			

His	Val	Leu	Val	Ser	Ala	Ala	His	Glu	Ala	Arg	Val	Glu	Lys	Phe	Ile
	130					135					140				

Tyr	Val	Ser	Thr	Asp	Glu	Val	Tyr	Gly	Gly	Ser	Leu	Asp	Lys	Glu	Phe
145					150					155				160	

Asp	Glu	Ser	Ser	Pro	Lys	Gln	Pro	Thr	Asn	Pro	Tyr	Ala	Ser	Ser	Lys
				165					170					175	

Ala	Ala	Ala	Glu	Cys	Phe	Val	Gln	Ser	Tyr	Trp	Glu	Gln	Tyr	Lys	Phe
			180					185					190		

Pro	Val	Val	Ile	Thr	Arg	Ser	Ser	Asn	Val	Tyr	Gly	Pro	His	Gln	Tyr
		195					200					205			

Pro	Glu	Lys	Val	Ile	Pro	Lys	Phe	Ile	Ser	Leu	Leu	Gln	His	Asn	Arg
	210					215					220				

Lys	Cys	Cys	Ile	His	Gly	Ser	Gly	Leu	Gln	Thr	Arg	Asn	Phe	Leu	Tyr
225					230					235				240	

5118

Ala Thr Asp Val Val Glu Ala Phe Leu Thr Val Leu Lys Lys Gly Lys
 245 250 255

Pro Gly Glu Ile Tyr Asn Ile Gly Thr Asn Phe Glu Met Ser Val Val
 260 265 270

Gln Leu Ala Lys Glu Leu Ile Gln Leu Ile Lys Glu Thr Asn Ser Glu
 275 280 285

Ser Glu Met Glu Asn Trp Val Asp Tyr Val Asn Asp Arg Pro Thr Asn
 290 295 300

Asp Met Arg Tyr Pro Met Lys Ser Glu Lys Ile His Gly Leu Gly Trp
 305 310 315 320

Arg Pro Lys Val Pro Trp Lys Glu Gly Ile Lys Lys Thr Ile Glu Trp
 325 330 335

Tyr Arg Glu Asn Phe His Asn Trp Lys Asn Val Glu Lys Ala Leu Glu
 340 345 350

Pro Phe Pro Val
 355

<210> 5832

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5832

Ala Lys Thr Ser His Leu Glu Phe Gly Lys Ile Arg Ile Ser Gln Val
 1 5 10 15

Glu His Leu Leu Asn Ala Arg Ile Val Ser Met His Phe Lys Ser Ile
 20 25 30

Phe Asn Leu Tyr Tyr Ser Leu Ile Ile Gly Ile Met Thr Pro Glu Gln
 35 40 45

Arg Gln Leu Ser
 50

<210> 5833

<211> 55

<212> PRT

<213> Homo sapiens

5119

<400> 5833

Thr Arg Met Pro Ser Lys Ala Ala Leu Met Glu Glu Ala Lys Leu Met
1 5 10 15

Ala Ser Leu Trp His Leu Ala Ala Met Ala Phe Ile Thr Tyr Val Leu
20 25 30

Leu Ala Gly Met Ala Leu Gly Ile Gln Lys Arg Ser Val Pro Ser Pro
35 40 45

Ser Leu Thr Leu Pro Ser Leu
50 55

<210> 5834

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

5120

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5121

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5834

Xaa	Cys	Xaa	Ala	Xaa	Ala	Pro	Ser	Val	Pro	Ala	Trp	Gln	Val	Leu	His
1				5					10					15	

Xaa	His	Asn	Xaa	Xaa	Arg	Leu	Val	Glu	Phe	Ser	Ala	Phe	Leu	Glu	Gln
			20					25					30		

Gln	Arg	Asp	Pro	Asp	Ser	Tyr	Asn	Lys	His	Leu	Phe	Val	His	Ile	Gly
		35					40					45			

His	Ala	Asn	His	Ser	Tyr	Ser	Asp	Pro	Leu	Leu	Glu	Ser	Val	Asp	Ile
	50					55					60				

Arg	Gln	Ile	Tyr	Asp	Lys	Phe	Pro	Glu	Lys	Lys	Gly	Gly	Leu	Lys	Glu
65					70					75					80

Leu	Phe	Gly	Lys	Gly	Pro	Gln	Asn	Ala	Xaa	Phe	Leu	Val	Lys	Phe	Trp
				85					90					95	

Ala	Asp	Leu	Asn	Cys	Asn	Ile	Gln	Asp	Asp	Ala	Gly	Ala	Phe	Tyr	Gly
		100						105					110		

Val	Thr	Ser	Gln	Tyr	Glu	Ser	Ser	Glu	Asn	Met	Thr	Val	Thr	Cys	Ser
		115					120					125			

Thr	Lys	Val	Cys	Ser	Phe	Gly	Lys	Gln	Val	Val	Xaa	Lys	Val	Glu	Thr
130						135					140				

Glu	Tyr	Ala	Arg	Phe	Glu	Asn	Xaa	Arg	Phe	Val	Tyr	Arg	Ile	Xaa	Arg
145					150					155					160

Ser	Pro	Met	Cys	Glu	Tyr	Met	Ile	Asn	Phe	Ile	His	Lys	Leu	Lys	His
				165					170				175		

Leu	Pro	Glu	Lys	Tyr	Met	Met	Asn	Ser	Val	Leu	Glu	Xaa	Phe	Thr	Ile
			180					185					190		

Leu	Leu	Xaa	Val	Thr	Xaa	Arg	Asp	Thr	Xaa	Xaa	Thr	Leu	Leu	Cys	Met
		195					200					205			

Ala	Cys	Val	Phe	Glu	Val	Ser	Asn	Xaa	Glu	Xaa	Gly	Ala	Gln	His	His
	210					215					220				

Ile	Tyr	Arg	Leu	Val	Lys	Asp
225					230	

5122

<210> 5835

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5835

Ala Asp Leu Arg Glu Gln Arg Gly Leu Arg Gln Ala Thr Asp His Gln
 1 5 10 15

Glu Leu Val Glu Ile Pro Thr Arg Pro Leu Leu Thr Lys Leu Ser Leu
 20 25 30

Ile Thr Ala Pro Arg Arg Gly Glu Arg Ala Pro Val Pro Leu Arg Ala
 35 40 45

Gly Gly His Ser Thr Gly Asp Thr Ala
 50 55

<210> 5836

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5836

Ile Ala His Tyr Phe Leu Tyr Arg Tyr Leu Lys Lys Thr Val Tyr Gly
 1 5 10 15

Leu His Phe Phe Xaa Cys His Ile Gly Leu Met Leu Leu Ser Asn Gly
 20 25 30

Gly Ala Arg Ser His His Ser Leu Ser Pro Gln Ile Asp Phe Val Pro
 35 40 45

Pro Ser Asn Lys Leu Ser Lys Ser
 50 55

<210> 5837

<211> 555

<212> PRT

<213> Homo sapiens

5123

<400> 5837

Gln Tyr Arg Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala Val Thr
 1 5 10 15
 Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys
 20 25 30
 Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met
 35 40 45
 Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala
 50 55 60
 Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser
 65 70 75 80
 Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val
 85 90 95
 Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys Lys Lys Lys Ala
 100 105 110
 Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys
 115 120 125
 Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser Ser Ser Ser
 130 135 140
 Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys Pro Pro Arg Gly
 145 150 155 160
 Arg Lys Pro Ala Glu Lys Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro
 165 170 175
 Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp Ser Asp Ser Asp
 180 185 190
 Glu Val Asp Arg Ile Ser Glu Trp Lys Arg Arg Asp Glu Ala Arg Arg
 195 200 205
 Arg Glu Leu Glu Ala Arg Arg Arg Arg Glu Gln Glu Glu Glu Leu Arg
 210 215 220
 Arg Leu Arg Glu Gln Glu Lys Glu Glu Lys Glu Arg Arg Arg Glu Arg
 225 230 235 240
 Ala Asp Arg Gly Glu Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly Asp
 245 250 255
 Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys Gly
 260 265 270

5124

Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala Glu
 275 280 285

Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser Ser
 290 295 300

Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg Pro
 305 310 315 320

Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg Lys
 325 330 335

Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys Glu
 340 345 350

Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys Phe
 355 360 365

Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala Leu
 370 375 380

Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys Asn
 385 390 395 400

Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala Asn
 405 410 415

Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys Ser
 420 425 430

Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys Ala
 435 440 445

Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu Leu
 450 455 460

Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser Thr
 465 470 475 480

Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly Glu
 485 490 495

Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu Gly
 500 505 510

Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu Gly
 515 520 525

Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg Ala
 530 535 540

5125

Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
 545 550 555

<210> 5838

<211> 227

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5838

Gln	His	Pro	Gln	Pro	Ala	Asp	Ser	Arg	Gln	Thr	Gly	Ser	Ser	Lys	Ala
1				5					10					15	
Leu	Ala	Gln	Thr	Leu	Pro	Pro	Pro	Thr	Xaa	Ala	Gly	Glu	Ser	Asn	Ser
			20					25					30		
Val	Thr	Cys	Asn	Cys	Gly	Gln	Glu	Ala	Val	Leu	Leu	Thr	Val	Arg	Lys
		35					40					45			
Glu	Gly	Pro	Asn	Arg	Gly	Arg	Gln	Phe	Phe	Lys	Cys	Asn	Gly	Gly	Ser
	50					55					60				
Cys	Asn	Phe	Phe	Leu	Trp	Ala	Asp	Ser	Pro	Asn	Pro	Gly	Ala	Gly	Gly
65					70					75					80
Pro	Pro	Ala	Leu	Ala	Tyr	Arg	Pro	Leu	Gly	Ala	Ser	Leu	Gly	Cys	Pro
				85					90					95	
Pro	Gly	Pro	Gly	Ile	His	Leu	Gly	Gly	Phe	Gly	Asn	Pro	Gly	Asp	Gly
			100					105					110		
Ser	Gly	Ser	Gly	Thr	Ser	Cys	Leu	Cys	Ser	Gln	Pro	Ser	Val	Thr	Arg
		115					120					125			
Thr	Val	Gln	Lys	Asp	Gly	Pro	Asn	Lys	Gly	Arg	Gln	Phe	His	Thr	Cys
	130					135					140				
Ala	Lys	Pro	Arg	Glu	Gln	Gln	Cys	Gly	Phe	Phe	Gln	Trp	Val	Asp	Glu
145					150					155					160

5126

Asn Thr Ala Pro Gly Thr Ser Gly Ala Pro Ser Trp Thr Gly Asp Arg
 165 170 175

Gly Arg Thr Leu Glu Ser Glu Ala Arg Ser Lys Arg Pro Arg Ala Gly
 180 185 190

Ser Ser Asp Met Gly Ser Thr Ala Lys Lys Pro Arg Lys Cys Ser Xaa
 195 200 205

Cys His Gln Pro Gly Thr His Pro Ser Leu Leu Ser Ser Glu Gln Met
 210 215 220

Ser Ser Gly
 225

<210> 5839

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5839

Gly Arg Ser Arg Val Ser Ser Arg Lys Arg His Pro Ala Gly Pro Pro
 1 5 10 15

Gly Glu Ala Gln Glu Gly Ser Ala Lys Ala Glu Arg Pro Gly Leu Gln
 20 25 30

Asn Met Glu Leu Ala Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala
 35 40 45

Glu Asp Ser Phe Thr Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr
 50 55 60

Tyr Leu Lys Asp Ser Ser Arg His Cys Pro Ser Leu Trp Ala Gly Thr
 65 70 75 80

Asn Gly Gly Thr Ile Tyr Ala Phe Ser Leu Arg Val Pro Pro Ala Glu
 85 90 95

Arg Arg Met Asp Glu Pro Val Arg Ala Glu Gln Ala Lys Glu Ile Gln
 100 105 110

Leu Met His Arg Ala Pro Val Val Gly Ile Leu Val Leu Asp Gly His

5127

115	120	125
Ser Val Pro Leu Pro Glu Pro Leu Glu Val Ala His Asp Leu Ser Lys		
130	135	140
Ser Pro Asp Met Gln Gly Ser His Gln Leu Leu Val Val Ser Glu Glu		
145	150	155
Gln Phe Lys Val Phe Thr Leu Pro Lys Val Ser Xaa Lys Leu Lys Leu		
165	170	175
Lys Leu Thr Ala Leu Glu Gly Ser Arg Val Arg Arg Val Ser Val Ala		
180	185	190
His Phe Gly Ser Arg Arg Ala Glu Asp Tyr Gly Glu His His Leu Ala		
195	200	205
Val Leu Thr Asn Leu Gly Asp Ile Gln Val Val Ser Leu Pro Leu Leu		
210	215	220
Lys Pro Gln Val Arg Tyr Ser Cys Ile Arg Arg Glu Asp Val Met Ala		
225	230	235
Ser Pro Pro Ala Ser Ser Pro Asn Met Ala Lys Ala Ser Thr		
245	250	

<210> 5840

<211> 88

<212> PRT

<213> Homo sapiens

<400> 5840

Gln Pro Ile His Thr Arg Pro Gly Leu Phe Ile Tyr Thr Ala Ala His		
1	5	10
Ser Ser Leu Gln Leu His Met Leu Tyr Leu Asp His Ser Glu Ala Asn		
20	25	30
Ser Glu His Tyr Ile Ile Leu Ser Ile Asn Ile Ser Asn Ile Leu Lys		
35	40	45
Tyr Thr Ile Gly Ile Gln Ala Ser Pro Ile Val Pro Gln Met Phe Gly		
50	55	60
Cys Phe Cys Ser Trp Ile Val Cys Ile Arg Ile Gln Ala Arg Pro Ile		
65	70	75
Tyr Cys Ile Tyr Leu Lys Cys Leu		
85		

5128

<210> 5841

<211> 98

<212> PRT

<213> Homo sapiens

<400> 5841

Ser Phe Thr Gly Gln Ser Arg Thr Lys Ile Val Tyr Ser Met Tyr Ser
 1 5 10 15

Arg Lys Ala Ala Glu Glu Val Lys Arg Glu Leu Ile Lys Leu Lys Val
 20 25 30

Asn Tyr Tyr Ile Leu Glu Glu Ser Trp Cys Val Arg Arg Ser Lys Pro
 35 40 45

Gly Cys Ser Met Pro Glu Ile Trp Asp Val Glu Asp Pro Ala Asn Ala
 50 55 60

Gly Lys Thr Pro Leu Cys Asn Leu Leu Val Lys Asp Ser Lys Pro His
 65 70 75 80

Phe Thr Thr Val Phe Gln Asn Ser Val Tyr Lys Val Leu Glu Val Val
 85 90 95

Lys Glu

<210> 5842

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5842

Arg Ala Glu Phe Gly Thr Xaa Ser Leu Gln Ala Pro Ser Arg Glu Glu
 1 5 10 15

Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val
 20 25 30

Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro
 35 40 45

5129

Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met
 50 55 60

Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys
 65 70 75 80

Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Cys
 85 90 95

<210> 5843

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5843

Val Thr Ala Xaa Ser Gly Ile Leu Asp Val Thr Val Val Tyr Leu Asn
 1 5 10 15

Pro Glu Gln His Cys Cys Gln Glu Ser Ser Asp Glu Glu Ala Cys Pro
 20 25 30

Glu Asp Lys Gly Pro Gln Asp Pro Gln Ala Leu Ala Leu Asp Thr Gln
 35 40 45

Ile Pro Ala Thr Pro Gly Pro Lys Pro Leu Val Arg Thr Ser Arg Glu
 50 55 60

Pro Gly Lys Asp Val Thr Thr Ser Gly Tyr Ser Ser Val Ser Thr Ala
 65 70 75 80

Ser Pro Thr Ser Ser Val Asp Gly Gly Leu Gly Ala Leu Pro Gln Pro
 85 90 95

Thr Ser Val Leu Ser Leu Asp Ser Asp Ser His Thr Gln Pro Cys His
 100 105 110

His Gln Ala Arg Lys Ser Cys Leu Gln Cys Arg Pro Pro Ser Pro Pro
 115 120 125

Glu Ser Ser Val Pro Gln Gln Gln Val Lys Arg Ile Asn Leu Cys Ile

5130

130

135

140

His Ser Glu Glu Glu Asp Met Asn Leu Gly Leu Val Arg Leu
 145 150 155

<210> 5844

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5844

Gly Cys Leu Asn Asp Glu His Leu Glu Glu Leu Gly Gly Ile Leu Lys
 1 5 10 15

Ala Lys Leu Glu Gly His Phe Lys Asn Gln Glu Leu Arg Gln Val Lys
 20 25 30

Arg Gln Glu Glu Asn Tyr Asp Gln Gln Val Glu Met Ser Leu Xaa Asp
 35 40 45

Glu Asp Glu Cys Asp Val Tyr Ile Leu Thr Lys Val Ser Asp Ile Xaa
 50 55 60

His Ser Leu Phe Lys Tyr Leu
 65 70

<210> 5845

<211> 137

<212> PRT

<213> Homo sapiens

<400> 5845

Arg Gly Gln His Gln Leu Glu Gly Gly Leu Gly Gly Phe Gln Gly Leu
 1 5 10 15

His Gln Val Arg Arg Pro Cys Pro Glu Asp Trp Leu Leu Tyr Gly Arg
 20 25 30

5131

Lys Cys Tyr Phe Phe Ser Glu Glu Pro Arg Asp Trp Asn Thr Gly Arg
35 40 45

Gln Tyr Cys His Thr His Glu Ala Val Leu Ala Val Ile Gln Ser Gln
50 55 60

Lys Glu Leu Glu Phe Met Phe Lys Phe Thr Arg Arg Glu Pro Trp Ile
65 70 75 80

Gly Leu Arg Arg Val Gly Asp Glu Phe His`Trp Val Asn Gly Asp Pro
85 90 95

Phe	Asp	Pro	Asp	Thr	Phe	Thr	Ile	Ala	Gly	Pro	Gly	Glu	Cys	Val	Phe
			100					105					110		

Val	Glu	Pro	Thr	Arg	Leu	Val	Ser	Thr	Glu	Cys	Leu	Met	Thr	Arg	Pro
		115					120					125			

Trp Val Cys Ser Lys Met Ala Tyr Thr
130 135

<210> 5846

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (121)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

 $\langle 222 \rangle$ (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5846

Gly Ala Arg Pro Gly Ala Glu Gly Ala Arg Ala Phe Gly Gly Ser Ile
1 5 10 15

Gly Leu Gln Ala Glu Glu Gln Gly Pro Cys His Leu Pro Gly Gly Arg
20 25 30

Ser His Leu Cys Ser Gln Val Arg Gly Ser Ser Gly Gly Glu Thr Glu
35 40 45

Cys Ala Ser Trp Glu Ala Pro Arg Ile Val Gly Gly Glu Leu Ala Ala
50 55 60

5132

Ser Leu Ala Cys Pro Leu Phe Pro Val Pro Pro Ser Arg Leu Ala Pro
 65 70 75 80

Ala Pro Ala Trp Glu Asp Pro His Leu Arg Leu Gln Cys Leu Phe Pro
 85 90 95

Leu Glu Ala Leu Pro Ser Ala Arg Gly Pro Arg Ile Leu Pro Trp Pro
 100 105 110

Ser Glu His Arg Leu Gly Arg Pro Xaa Asn Ser Ser Val Lys Pro Gly
 115 120 125

Ile Xaa
 130

<210> 5847

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5847

Glu Phe Gly Arg Gly Glu Ile Ser Arg Gly Pro Asp Val His Leu Thr
 1 5 10 15

His Gly Leu Glu Pro Lys Asp Val Asn Arg Glu Phe Arg Leu Thr Glu
 20 25 30

Ser Ser Thr Cys Glu Pro Ser Thr Val Ala Ala Val Leu Ser Arg Ala
 35 40 45

Gln Gly Cys Arg Ser Pro Ser Ala Pro Asp Val Arg Thr Gly Ser Phe
 50 55 60

Ser His Ser Ala Thr Asp Gly Ser Val Gly Leu Ile Gly Val Pro Glu
 65 70 75 80

Lys Lys Val Ala Glu Lys Gln Ala Ser Thr Glu Leu Glu Ala Ala Ser
 85 90 95

5133

Phe Pro Ala Xaa Met Tyr Ser Glu Pro Leu Arg Gln Phe Arg Asp Ser
 100 105 110

Ser Val Gly Asp Gln Asn Ala Gln Val Cys Gln Thr Asn Ser Arg Thr
 115 120 125

Xaa Cys Asn Asn Ser Gly Asp His Thr Pro Trp Ile
 130 135 140

<210> 5848

<211> 194

<212> PRT

<213> Homo sapiens

<400> 5848

Leu Leu Ser Asn Lys Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp
 1 5 10 15

Val Val Gly Met Phe Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly
 20 25 30

Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg
 35 40 45

Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys
 50 55 60

Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His Ala
 65 70 75 80

Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser Ala
 85 90 95

Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser Tyr
 100 105 110

Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala Val
 115 120 125

Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu Leu
 130 135 140

Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr Glu
 145 150 155 160

Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu Lys
 165 170 175

5134

Ala Leu Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr His
180 185 190

Leu Trp

<210> 5849

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5849

Leu Phe Lys Val Ser Asn Val His Pro Gly Leu Gly Ile Thr Asn Val
1 5 10 15

Gly Val Lys Met Pro Thr Lys Gly Phe Ser Ala Leu Glu Val Leu Arg
20 25 30

Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe
35 40 45

Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile
50 55 60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr
65 70 75

<210> 5850

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

5135

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5850

Cys	Xaa	Phe	Xaa	Asn	Ala	Gly	Val	Lys	Gln	Ser	Ala	Leu	Leu	Gly	Leu
1				5				10						15	

Lys	Asp	Leu	Leu	Ser	Gln	Tyr	Pro	Phe	Ile	Ile	Asp	Ala	His	Leu	Ser
		20						25					30		

Asn	Ile	Leu	Ser	Glu	Val	Thr	Ala	Val	Phe	Thr	Asp	Lys	Asp	Ala	Asn
		35					40					45			

Val	Arg	Leu	Ala	Ala	Val	Gln	Leu	Leu	Gln	Phe	Leu	Ala	Pro	Lys	Ile
	50					55					60				

Arg	Ala	Glu	Gln	Ile	Ser	Pro	Phe	Phe	Pro	Leu	Val	Ser	Ala	His	Leu
65					70					75					80

Ser	Ser	Ala	Met	Thr	His	Ile	Thr	Glu	Gly	Ile	Gln	Glu	Asp	Ser	Leu
				85					90					95	

Lys	Val	Leu	Asp	Ile	Leu	Leu	Glu	Gln	Tyr	Pro	Ala	Leu	Ile	Thr	Gly
		100						105					110		

Arg	Ser	Ser	Ile	Leu	Leu	Lys	Asn	Phe	Val	Glu	Leu	Ile	Ser	His	Gln
		115					120					125			

Gln	Leu	Ser	Lys	Gly	Leu	Ile	Asn	Arg	Asp	Arg	Ser	Gln	Ser	Trp	Ile
	130					135					140				

Leu	Ser	Val	Asn	Pro	Asn	Arg	Arg	Leu	Thr	Ser	Gln	Gln	Trp	Arg	Leu
145					150					155					160

5136

Lys Val Leu Val Arg Leu Ser Lys Phe Leu Gln Ala Leu Ala Asp Gly
 165 170 175

Ser Ser Arg Leu Arg Glu Ser Glu Gly Leu Gln Glu Gln Lys Glu Asn
 180 185 190

Pro His Ala Thr Ser Asn Xaa Ile Phe Ile Asn Trp Lys Glu His Ala
 195 200 205

Asn Asp Gln Gln His Ile Gln Gly Tyr Glu Asn Gly Gly Ser Gln Ala
 210 215 220

Lys Xaa Gly Pro Xaa Xaa Xaa Thr Asp Leu Val Gly Gly Leu Met Gly
 225 230 235 240

Gly

<210> 5851

<211> 260

<212> PRT

<213> Homo sapiens

<400> 5851

Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile
 1 5 10 15

Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met
 20 25 30

Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu
 35 40 45

His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val
 50 55 60

Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn
 65 70 75 80

Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu
 85 90 95

Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala
 100 105 110

Val Gly Cys Ile Leu Ala Glu Leu Leu Leu Arg Val Pro Phe Leu Pro
 115 120 125

Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly

5137

130	135	140
Thr Pro Thr Glu Glu Gln Trp Pro Asp Met Cys Ser Leu Pro Asp Tyr		
145	150	155 160
Val Thr Phe Lys Ser Phe Pro Gly Ile Pro Leu His His Ile Phe Ser		
	165	170 175
Ala Ala Gly Asp Asp Leu Leu Asp Leu Ile Gln Gly Leu Phe Leu Phe		
	180	185 190
Asn Pro Cys Ala Arg Ile Thr Ala Thr Gln Ala Leu Lys Met Lys Tyr		
	195	200 205
Phe Ser Asn Arg Pro Gly Pro Thr Pro Gly Cys Gln Leu Pro Arg Pro		
	210	215 220
Asn Cys Pro Val Glu Thr Leu Lys Glu Gln Ser Asn Pro Ala Leu Ala		
	225	230 235 240
Ile Lys Arg Lys Arg Thr Glu Ala Leu Glu Gln Gly Gly Leu Pro Lys		
	245	250 255
Lys Leu Ile Phe		
	260	

<210> 5852

<211> 94

<212> PRT

<213> Homo sapiens

<400> 5852

Ser Ser Tyr Arg Ser Lys Ala Tyr Thr His Thr Lys Ile Thr Val Pro		
1	5	10 15
Arg Glu Arg Val Cys Val Ser Val Arg Val Ser Val Cys Ala Arg Ala		
	20	25 30
Arg Ser Trp Pro Asn Val Arg Thr Leu His Lys Gly Gly Arg Ser Ser		
	35	40 45
Tyr Arg Leu Phe Asn Val Arg Glu Thr Ile Phe Leu Leu Phe Gln Leu		
	50	55 60
Tyr Gln Ile Leu Val Pro Gln His Arg Asn Asp Ser Glu Ser Gln Thr		
	65	70 75 80
Lys Cys Ile Ile Cys Ser Ile Leu Ile Leu Leu His Ser		
	85	90

5138

<210> 5853

<211> 89

<212> PRT

<213> Homo sapiens

<400> 5853

Cys Cys Leu Cys Gly Leu Trp Val Trp Thr Asn Pro Val Val Ala Cys
1 5 10 15

Pro Pro Glu Pro Pro Pro Ser Gln Gln Arg His Gln Gly Ala Leu Gly
20 25 30

Ser Pro Lys Thr Tyr His Ser Arg Val Pro Gln Ala Pro Gly Cys Cys
35 40 45

Phe Leu Leu Pro Val Pro Gln Pro His Ala Pro Phe Tyr Ile Leu Cys
50 55 60

Val Ser Lys Gly Trp Lys Asn Lys Thr Gln Leu Lys Ile Lys Lys Lys
65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys
85

<210> 5854

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (320)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5139

<222> (527)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (528)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (529)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5854

Leu	Ser	Trp	Pro	Val	Val	Ala	Asn	Gln	Val	Leu	Lys	Leu	Gly	Asn	Leu
1				5				10					15		

Glu	Phe	Lys	Pro	Glu	Ser	Arg	Val	Asn	Gly	Leu	Asp	Glu	Ser	Lys	Ile
			20					25					30		

Lys	Asp	Lys	Asn	Glu	Leu	Lys	Glu	Ile	Cys	Glu	Leu	Thr	Gly	Ile	Asp
		35					40					45			

Gln	Ser	Val	Leu	Glu	Arg	Ala	Phe	Ser	Phe	Arg	Thr	Val	Glu	Ala	Lys
		50				55					60				

Gln	Glu	Lys	Val	Ser	Thr	Thr	Leu	Asn	Val	Ala	Gln	Ala	Tyr	Tyr	Ala
65					70					75					80

Arg	Asp	Ala	Leu	Ala	Lys	Asn	Leu	Tyr	Ser	Arg	Leu	Phe	Ser	Trp	Leu
				85					90					95	

Val	Asn	Arg	Ile	Asn	Glu	Ser	Ile	Lys	Ala	Gln	Thr	Lys	Val	Arg	Lys
			100					105					110		

Lys	Val	Met	Gly	Val	Leu	Asp	Ile	Tyr	Gly	Phe	Glu	Ile	Phe	Glu	Asp
		115					120					125			

Asn	Ser	Phe	Glu	Gln	Phe	Ile	Ile	Asn	Tyr	Cys	Asn	Glu	Lys	Leu	Gln
		130				135					140				

Gln	Ile	Phe	Ile	Glu	Leu	Thr	Leu	Lys	Glu	Glu	Gln	Glu	Glu	Tyr	Ile
145					150					155					160

Arg	Glu	Asp	Ile	Glu	Trp	Thr	His	Ile	Asp	Tyr	Phe	Asn	Asn	Ala	Ile
				165					170					175	

Ile	Cys	Asp	Leu	Ile	Glu	Asn	Asn	Thr	Asn	Gly	Ile	Leu	Ala	Met	Leu
			180					185					190		

Asp	Glu	Glu	Cys	Leu	Arg	Pro	Gly	Thr	Val	Thr	Asp	Glu	Thr	Phe	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5140

195	200	205
Glu Lys Leu Asn Gln Val Cys Ala Thr His Gln His Phe Glu Ser Arg		
210	215	220
Met Ser Lys Cys Ser Arg Phe Leu Asn Asp Thr Ser Leu Pro His Ser		
225	230	235
Cys Phe Arg Ile Gln His Tyr Ala Gly Lys Val Leu Tyr Gln Val Glu		
	245	250
		255
Gly Phe Val Asp Lys Asn Asn Asp Leu Xaa Tyr Arg Asp Leu Ser Gln		
	260	265
		270
Ala Met Trp Lys Ala Ser His Ala Leu Ile Lys Ser Leu Phe Pro Glu		
	275	280
		285
Gly Asn Pro Ala Lys Ile Asn Leu Lys Arg Pro Pro Thr Ala Gly Ser		
	290	295
		300
Gln Phe Lys Ala Ser Val Ala Thr Leu Met Lys Asn Leu Gln Thr Xaa		
305	310	315
		320
Xaa Pro Asn Tyr Ile Arg Cys Ile Lys Pro Asn Asp Lys Lys Ala Ala		
	325	330
		335
His Ile Phe Asn Glu Ala Leu Val Cys His Gln Ile Arg Tyr Leu Gly		
	340	345
		350
Leu Leu Glu Asn Val Arg Val Arg Arg Ala Gly Tyr Ala Phe Arg Gln		
	355	360
		365
Ala Tyr Glu Pro Cys Leu Glu Arg Tyr Lys Met Leu Cys Lys Gln Thr		
	370	375
		380
Trp Pro His Trp Lys Gly Pro Ala Arg Ser Gly Val Glu Val Leu Phe		
385	390	395
		400
Asn Glu Leu Glu Ile Pro Val Glu Glu Tyr Ser Phe Gly Arg Ser Lys		
	405	410
		415
Ile Phe Ile Arg Asn Pro Arg Thr Leu Phe Lys Leu Glu Asp Leu Arg		
	420	425
		430
Lys Gln Arg Leu Glu Asp Leu Ala Thr Leu Ile Gln Lys Ile Tyr Arg		
	435	440
		445
Gly Trp Lys Cys Arg Thr His Phe Leu Leu Met Lys Lys Ser Gln Ile		
	450	455
		460
Val Ile Ala Ala Trp Tyr Arg Arg Tyr Ala Gln Gln Lys Arg Tyr Gln		

5141

465 470 475 480
 Gln Thr Lys Ser Ser Ala Leu Val Ile Gln Ser Tyr Ile Arg Gly Trp
 485 490 495
 Lys Ala Arg Lys Ile Leu Arg Glu Leu Lys His Gln Lys Arg Cys Lys
 500 505 510
 Glu Ala Val Thr Thr Ile Ala Ala Tyr Trp His Gly Thr Gln Xaa Xaa
 515 520 525
 Xaa Lys Asn Gln Glu Ile Leu Gln Ser Gln Cys Trp Lys Arg Lys Ser
 530 535 540

<210> 5855
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 5855
 Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser
 1 5 10 15
 Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro
 20 25 30
 Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu
 35 40 45
 Leu Leu Pro Asp Val Ala Asp Phe Pro Cys Gly Ala Lys Arg Lys Pro
 50 55 60
 Arg Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile
 65 70 75 80
 Lys Ala Ser Gly Thr Lys Arg
 85

<210> 5856
 <211> 600
 <212> PRT
 <213> Homo sapiens

<220>

5142

<221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (120)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (270)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5856
 Arg Thr Arg Gly Lys Gln Ala Ala Asn Asn Ser Leu Leu Leu His Leu
 1 5 10 15
 Leu Lys Ser Gln Thr Ile Pro Lys Pro Met Asn Gly His Ser His Ser
 20 25 30
 Glu Arg Gly Ser Ile Phe Glu Glu Ser Ser Thr Pro Xaa Thr Ile Xaa
 35 40 45
 Glu Tyr Ser Xaa Asn Asn Pro Ser Phe Thr Asp Asp Ser Ser Gly Asp
 50 55 60

5143

Glu	Ser	Ser	Tyr	Ser	Asn	Cys	Val	Pro	Ile	Asp	Leu	Ser	Cys	Lys	His	65	70	75	80
Xaa	Thr	Glu	Lys	Ser	Glu	Ser	Asp	Gln	Pro	Val	Ser	Leu	Asp	Asn	Phe	85	90	95	
Thr	Gln	Ser	Leu	Leu	Asn	Thr	Trp	Asp	Pro	Lys	Val	Pro	Asp	Val	Asp	100	105	110	
Ile	Lys	Glu	Asp	Gln	Asp	Thr	Xaa	Lys	Asn	Ser	Lys	Leu	Asn	Ser	His	115	120	125	
Gln	Lys	Val	Thr	Leu	Leu	Gln	Leu	Xaa	Leu	Gly	His	Lys	Asn	Glu	Glu	130	135	140	
Asn	Val	Glu	Lys	Asn	Thr	Ser	Pro	Gln	Gly	Val	His	Asn	Asp	Val	Ser	145	150	155	160
Lys	Phe	Asn	Thr	Gln	Asn	Xaa	Ala	Arg	Thr	Ser	Val	Ile	Glu	Ser	Pro	165	170	175	
Ser	Thr	Asn	Arg	Thr	Thr	Pro	Val	Ser	Thr	Pro	Pro	Leu	Leu	Thr	Ser	180	185	190	
Ser	Lys	Ala	Gly	Ser	Pro	Ile	Asn	Leu	Ser	Gln	His	Ser	Leu	Val	Ile	195	200	205	
Lys	Trp	Asn	Ser	Pro	Pro	Tyr	Val	Cys	Ser	Thr	Gln	Ser	Glu	Lys	Leu	210	215	220	
Thr	Asn	Thr	Ala	Ser	Asn	His	Ser	Met	Asp	Leu	Thr	Lys	Ser	Lys	Asp	225	230	235	240
Pro	Pro	Gly	Glu	Lys	Pro	Ala	Gln	Asn	Glu	Gly	Ala	Gln	Asn	Ser	Ala	245	250	255	
Thr	Phe	Ser	Ala	Ser	Lys	Leu	Leu	Gln	Asn	Leu	Ala	Gln	Xaa	Gly	Met	260	265	270	
Gln	Ser	Ser	Met	Ser	Val	Glu	Glu	Gln	Arg	Pro	Ser	Lys	Gln	Leu	Leu	275	280	285	
Thr	Gly	Asn	Thr	Asp	Lys	Pro	Ile	Gly	Met	Ile	Asp	Arg	Leu	Asn	Ser	290	295	300	
Pro	Leu	Leu	Ser	Asn	Lys	Thr	Asn	Ala	Val	Glu	Glu	Asn	Lys	Ala	Phe	305	310	315	320
Ser	Ser	Gln	Pro	Thr	Gly	Pro	Glu	Pro	Gly	Leu	Ser	Gly	Ser	Glu	Ile	325	330	335	

5144

Glu Asn Leu Leu Glu Arg Arg Thr Val Leu Gln Leu Leu Leu Gly Asn
 340 345 350
 Pro Asn Lys Gly Lys Ser Glu Lys Lys Glu Lys Thr Pro Leu Arg Asp
 355 360 365
 Glu Ser Thr Gln Glu His Ser Glu Arg Ala Leu Ser Glu Gln Ile Leu
 370 375 380
 Met Val Lys Ile Lys Ser Glu Pro Cys Asp Asp Leu Gln Ile Pro Asn
 385 390 395 400
 Thr Asn Val His Leu Ser His Asp Ala Lys Ser Ala Pro Phe Leu Gly
 405 410 415
 Met Ala Pro Ala Val Gln Arg Ser Ala Pro Ala Leu Pro Val Ser Glu
 420 425 430
 Asp Phe Lys Ser Glu Pro Val Ser Pro Gln Asp Phe Ser Phe Ser Lys
 435 440 445
 Asn Gly Leu Leu Ser Arg Leu Leu Arg Gln Asn Gln Asp Ser Tyr Leu
 450 455 460
 Ala Asp Asp Ser Asp Arg Ser His Arg Asn Asn Glu Met Ala Leu Leu
 465 470 475 480
 Glu Ser Lys Asn Leu Cys Met Val Pro Lys Lys Arg Lys Leu Tyr Thr
 485 490 495
 Glu Pro Leu Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp
 500 505 510
 Ala Ala Asn Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu
 515 520 525
 Asn Gln Glu Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr
 530 535 540
 Pro Ala Gly His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala
 545 550 555 560
 Arg Glu Ser Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu
 565 570 575
 Asn Cys Val Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp
 580 585 590
 Ser Lys Lys Glu Arg Thr Gln Lys
 595 600

5145

<210> 5857

<211> 308

<212> PRT

<213> Homo sapiens

<400> 5857

Gln Tyr Gly Arg Ile Pro Gly Ser Thr His Ala Ser Ala Glu Pro Leu
 1 5 10 15
 Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp Ala Ala Asn
 20 25 30
 Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu Asn Gln Glu
 35 40 45
 Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr Pro Ala Gly
 50 55 60
 His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala Arg Glu Ser
 65 70 75 80
 Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu Asn Cys Val
 85 90 95
 Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp Ser Lys Lys
 100 105 110
 Lys Gly His Lys Asn Asn Val Thr Asn Ser Lys Pro Glu Phe Ser Ile
 115 120 125
 Ser Ser Leu Asn Gly Leu Met Tyr Ser Ser Thr Gln Pro Ser Ser Cys
 130 135 140
 Met Asp Asn Arg Thr Phe Ser Tyr Pro Gly Val Val Lys Thr Pro Val
 145 150 155 160
 Ser Pro Thr Phe Pro Glu His Leu Gly Cys Ala Gly Ser Arg Pro Glu
 165 170 175
 Ser Gly Leu Leu Asn Gly Cys Ser Met Pro Ser Glu Lys Gly Pro Ile
 180 185 190
 Lys Trp Val Ile Thr Asp Ala Glu Lys Asn Glu Tyr Glu Lys Asp Ser
 195 200 205
 Pro Arg Leu Thr Lys Thr Asn Pro Ile Leu Tyr Tyr Met Leu Gln Lys
 210 215 220

5146

Gly Gly Asn Ser Val Thr Ser Arg Glu Thr Gln Asp Lys Asp Ile Trp
225 230 235 240

Arg Glu Ala Ser Ser Ala Glu Ser Val Ser Gln Val Thr Ala Lys Glu
245 250 255

Glu Leu Leu Pro Thr Ala Glu Thr Lys Ala Ser Phe Phe Asn Leu Arg
260 265 270

Ser Pro Tyr Asn Ser His Met Gly Asn Asn Ala Ser Arg Pro His Ser
275 280 285

Ala Asn Gly Glu Val Tyr Gly Leu Leu Gly Ser Val Leu Thr Ile Lys
290 295 300

Lys Glu Ser Glu
305

<210> 5858

<211> 553

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (375)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (549)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5858

5147

Thr Leu Glu Ala Glu Lys Glu Arg Arg Lys Ser Gly Leu Ser Ser Arg
 1 5 10 15
 Val Gln Phe Arg Asn Gln Gly Ser Glu Pro Lys Tyr Thr Gln Glu Leu
 20 25 30
 Thr Leu Lys Arg Gln Lys Gln Lys Val Cys Met Glu Glu Thr Leu Trp
 35 40 45
 Leu Gln Asp Asn Ile Arg Asp Lys Leu Arg Pro Ile Pro Ile Thr Ala
 50 55 60
 Ser Val Glu Ile Gln Glu Pro Ser Ser Arg Arg Arg Val Asn Ser Leu
 65 70 75 80
 Pro Glu Val Leu Pro Ile Leu Asn Ser Asp Glu Pro Lys Thr Ala His
 85 90 95
 Ile Asp Val His Phe Leu Lys Glu Gly Cys Gly Asp Asp Asn Val Cys
 100 105 110
 Asn Ser Asn Leu Lys Leu Glu Tyr Lys Phe Cys Thr Arg Glu Gly Asn
 115 120 125
 Xaa Asp Lys Phe Xaa Tyr Leu Pro Ile Gln Lys Gly Val Pro Glu Leu
 130 135 140
 Val Leu Lys Asp Gln Lys Asp Ile Ala Leu Glu Ile Thr Val Thr Asn
 145 150 155 160
 Ser Pro Ser Asn Pro Arg Asn Pro Thr Lys Asp Gly Asp Asp Ala His
 165 170 175
 Glu Ala Lys Leu Ile Ala Thr Phe Pro Asp Thr Leu Thr Tyr Ser Ala
 180 185 190
 Tyr Arg Glu Leu Arg Ala Phe Pro Glu Lys Gln Leu Ser Cys Val Ala
 195 200 205
 Asn Gln Asn Gly Ser Gln Ala Asp Cys Glu Leu Gly Asn Pro Phe Lys
 210 215 220
 Arg Asn Ser Asn Val Thr Phe Tyr Leu Val Leu Ser Thr Thr Glu Val
 225 230 235 240
 Thr Phe Asp Thr Pro Asp Leu Asp Ile Asn Leu Lys Leu Glu Thr Thr
 245 250 255
 Ser Asn Gln Asp Asn Leu Ala Pro Ile Thr Ala Lys Ala Lys Val Val
 260 265 270

5148

Ile Glu Leu Leu Leu Ser Val Ser Gly Val Ala Lys Pro Ser Gln Val
 275 280 285

Tyr Phe Gly Gly Thr Val Val Gly Glu Gln Ala Met Lys Ser Glu Asp
 290 295 300

Glu Val Gly Ser Leu Ile Glu Tyr Glu Phe Arg Val Ile Asn Leu Gly
 305 310 315 320

Lys Pro Leu Thr Asn Leu Gly Thr Ala Thr Leu Asn Ile Gln Trp Pro
 325 330 335

Lys Glu Ile Ser Asn Gly Lys Trp Leu Leu Tyr Leu Val Lys Val Glu
 340 345 350

Ser Lys Gly Leu Glu Lys Val Thr Cys Glu Pro Gln Lys Glu Ile Asn
 355 360 365

Ser Leu Asn Leu Thr Glu Xaa His Asn Ser Arg Lys Lys Arg Glu Ile
 370 375 380

Thr Glu Lys Gln Ile Asp Asp Asn Arg Lys Phe Ser Leu Phe Ala Glu
 385 390 395 400

Arg Lys Tyr Gln Thr Leu Asn Cys Ser Val Asn Val Asn Cys Val Asn
 405 410 415

Ile Arg Cys Pro Leu Arg Gly Leu Asp Ser Lys Ala Ser Leu Ile Leu
 420 425 430

Arg Ser Arg Leu Trp Xaa Ser Thr Phe Leu Glu Glu Tyr Ser Lys Leu
 435 440 445

Asn Tyr Leu Asp Ile Leu Met Arg Ala Phe Ile Asp Val Thr Ala Ala
 450 455 460

Ala Glu Asn Ile Arg Leu Pro Asn Ala Gly Thr Gln Val Arg Val Thr
 465 470 475 480

Val Phe Pro Ser Lys Thr Val Ala Gln Tyr Ser Gly Val Pro Trp Trp
 485 490 495

Ile Ile Leu Val Ala Ile Leu Ala Gly Ile Leu Met Leu Ala Leu Leu
 500 505 510

Val Phe Ile Leu Trp Lys Cys Gly Phe Phe Lys Arg Asn Lys Lys Asp
 515 520 525

His Tyr Asp Ala Thr Tyr His Lys Ala Glu Ile His Ala Gln Pro Ser
 530 535 540

5149

Asp Lys Glu Arg Xaa Thr Ser Asp Ala
545 550

<210> 5859

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5859

Arg Thr Pro Glu Ser Trp Arg Leu Thr Pro Pro Ala Lys Val Gly Gly
1 5 10 15

Leu Asp Phe Ser Pro Val Gln Thr Ser Gln Gly Ala Ser Asp Pro Leu
20 25 30

Pro Asp Pro Leu Gly Leu Met Asp Leu Ser Thr Thr Pro Leu Gln Ser
35 40 45

Ala Pro Pro Leu Glu Ser Pro Gln Arg Leu Leu Ser Ser Glu Pro Leu
50 55 60

Asp Leu Ile Ser Val Pro Phe Gly Asn Ser Ser Pro Ser Asp Ile Asp
65 70 75 80

Val Pro Lys Pro Gly Ser Pro Glu Pro Gln Val Ser Gly Leu Ala Ala
85 90 95

Asn Arg Ser Leu Thr Glu Gly Leu Val Leu Gly His Asn Xaa
100 105 110

<210> 5860

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5860

Pro Xaa Arg Pro Arg Gly Ala Ala Ala Ala Ala Ala Ala Gly Ala

5150

1	5	10	15
Ala Met Pro Lys Gly Gly Arg Lys Gly Gly His Lys Gly Arg Ala Arg	20	25	30
Gln Tyr Thr Ser Pro Glu Glu Ile Asp Ala Gln Leu Gln Ala Glu Lys	35	40	45
Gln Lys Ala Arg Glu Glu Glu Glu Gln Lys Glu Gly Gly Asp Gly Ala	50	55	60
Ala Gly Asp Pro Lys Lys Glu Lys Lys Ser Leu Asp Ser Asp Glu Ser	65	70	75
Glu Asp Glu Glu Asp Asp Tyr Gln Gln Lys Arg Lys Gly Val Glu Gly	85	90	95
Leu Ile Asp Ile Glu Asn Pro Asn Arg Val Ala Gln Thr Thr Lys Lys	100	105	110
Val Thr Gln Leu Asp Leu Asp Gly Pro Lys Glu Leu Ser Arg Arg Glu	115	120	125
Arg Glu Glu Ile Glu Lys Gln Lys Ala Lys Glu Arg Tyr Met Lys Met	130	135	140
His Leu Ala Gly Lys Thr Glu Gln Ala Lys Ala Asp Leu Ala Arg Leu	145	150	155
Ala Ile Ile Arg Lys Gln Arg Glu Glu Ala Ala Arg Lys Lys Glu Glu	165	170	175
Glu Arg Lys Ala Lys Asp Asp Ala Thr Leu Ser Gly Lys Arg Met Gln	180	185	190
Ser Leu Ser Leu Asn Lys	195		

<210> 5861

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5861

Lys Asn Lys Thr Lys Ala Val Phe Pro Asn Phe Gly Met Asn Pro Pro	1	5	10	15
Leu Phe Gln Met Lys Thr Ala Ser Arg Ser Ser Ser Lys Arg Lys Ser	20	25	30	

5151

Leu Gly Gly Ala Gln Arg Ala Arg Cys Pro Ser Thr Ser Val Leu Gly
 35 40 45

Thr Trp Arg Val Ala Ala Ser Pro Pro Ala Pro Val Pro Ser Cys
 50 55 60

<210> 5862

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5862

Ala Thr Lys Ile Asn Leu Ser Leu Ser Ala Leu Gly Asn Val Ile Ser
 1 5 10 15

Ala Leu Val Asp Gly Lys Ser Thr His Ile Pro Tyr Arg Asp Ser Lys
 20 25 30

Leu Thr Arg Leu Leu Gln Asp Ser Leu Gly Gly Asn Ala Lys Thr Val
 35 40 45

Met Val Ala Asn Val Gly Pro Ala Ser Tyr Asn Val Glu Glu Thr Leu
 50 55 60

Thr Thr Leu Arg Tyr Ala Asn Arg Ala Lys Asn Ile Lys Asn Lys Pro
 65 70 75 80

Arg Val Asn Glu Asp Pro Lys Asp Ala Leu Leu Arg Glu Phe Gln Glu
 85 90 95

Glu Ile Ala Arg Leu Lys Ala Gln Leu Glu Lys Arg Ser Ile Gly Arg
 100 105 110

Arg Lys Arg Arg Glu Lys Arg Arg Glu Gly Gly Gly Ser Gly Gly Gly
 115 120 125

Gly Glu Glu Glu Glu Glu Gly Glu Glu Gly Glu Glu Glu Gly Asp
 130 135 140

Asp Lys Asp Asp Tyr Trp Arg Glu Gln Gln Glu Lys Leu Glu Ile Glu
 145 150 155 160

Lys Arg Ala Ile Val Glu Asp His Ser Leu Val Ala Glu Glu Lys Met

5152

165 170 175
 Arg Leu Leu Lys Glu Lys Glu Lys Lys Met Glu Asp Leu Arg Arg Glu
 180 185 190
 Lys Asp Ala Ala Glu Met Leu Gly Ala Lys Ile Lys Val Pro Tyr Pro
 195 200 205
 Tyr Pro Ser Leu Gly Pro Cys Pro Val Thr Ala Phe Xaa Phe Ile Lys
 210 215 220
 Gln Gln Gln Lys Thr
 225

 <210> 5863
 <211> 298
 <212> PRT
 <213> Homo sapiens

 <400> 5863
 Cys Glu Arg Gly Ser Leu His Phe Thr Gly Val Thr Gly Gly Asn Leu
 1 5 10 15
 Arg Val Asn Gly Lys Glu Arg Ala Ser Gly Ile Tyr Phe Gly Ala Asn
 20 25 30
 Glu Ala Leu Leu Ala Val Lys Asp Tyr Ile Arg Thr Gln Ile Ile Ser
 35 40 45
 Lys Lys Ile Asn Thr Lys Phe Phe Gln Glu Glu Asn Thr Glu Lys Leu
 50 55 60
 Lys Leu Lys Tyr Tyr Asn Leu Met Ile Gln Leu Asp Gln His Glu Gly
 65 70 75 80
 Ser Tyr Leu Ser Ile Cys Lys His Tyr Arg Ala Ile Tyr Asp Thr Pro
 85 90 95
 Cys Ile Gln Ala Glu Ser Glu Lys Trp Gln Gln Ala Leu Lys Ser Val
 100 105 110
 Val Leu Tyr Val Ile Leu Ala Pro Phe Asp Asn Glu Gln Ser Asp Leu
 115 120 125
 Val His Arg Ile Ser Gly Asp Lys Lys Leu Glu Glu Ile Pro Lys Tyr
 130 135 140
 Lys Asp Leu Leu Lys Leu Phe Thr Thr Met Glu Leu Met Arg Trp Ser
 145 150 155 160

5153

Thr Leu Val Glu Asp Tyr Gly Met Glu Leu Arg Lys Gly Ser Leu Glu
 165 170 175
 Ser Pro Ala Thr Asp Val Phe Gly Ser Thr Glu Glu Gly Glu Lys Arg
 180 185 190
 Trp Lys Asp Leu Lys Asn Arg Val Val Glu His Asn Ile Arg Ile Met
 195 200 205
 Ala Lys Tyr Tyr Thr Arg Ile Thr Met Lys Arg Met Ala Gln Leu Leu
 210 215 220
 Asp Leu Ser Val Asp Glu Ser Glu Ala Phe Leu Ser Asn Leu Val Val
 225 230 235 240
 Asn Lys Thr Ile Phe Ala Lys Val Asp Arg Leu Ala Gly Ile Ile Asn
 245 250 255
 Phe Gln Arg Pro Lys Asp Pro Asn Asn Leu Leu Asn Asp Trp Ser Gln
 260 265 270
 Lys Leu Asn Ser Leu Met Ser Leu Val Asn Lys Thr Thr His Leu Ile
 275 280 285
 Ala Lys Glu Glu Met Ile His Asn Leu Gln
 290 295

<210> 5864

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5864

Asn Ser Ala Glu Cys Asn Pro Arg Phe Xaa Asn Ala Thr Ile Val Cys
 1 5 10 15

Asn Ser Leu Asp Gly Ser Asn Trp Gly Gln Glu Gln Arg Glu Asp His
 20 25 30

Leu Cys Phe Ser Pro Gly Ser Glu Val Lys Val Arg Ser Lys Gly Glu
 35 40 45

Arg Ala Leu Gly Val Met Ser Arg Gly Gly Pro Arg Trp Lys Arg Ala

5154

50 55 60
 Trp Pro Gly Thr Gln Trp Leu Ala Leu Phe Glu Pro Ser Gly Thr Ala
 65 70 75 80
 Leu Ala His Phe Gln Gly Leu Leu Pro Pro Leu Thr Pro Ser Leu Pro
 85 90 95
 Thr Val His Ser Asp Leu
 100

<210> 5865

<211> 345

<212> PRT

<213> Homo sapiens

<400> 5865

Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Ala Met Ser Gly Asp
 1 5 10 15
 Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys
 20 25 30
 Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr
 35 40 45
 Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys
 50 55 60
 Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp
 65 70 75 80
 Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys Lys
 85 90 95
 Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp
 100 105 110
 Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp
 115 120 125
 Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Lys Asn Val Lys
 130 135 140
 Phe Pro Asp Glu Asp Glu Ile Leu Glu Lys Asp Glu Ala Leu Glu Asp
 145 150 155 160
 Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly
 165 170 175

5155

Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu
 180 185 190
 Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala
 195 200 205
 Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val
 210 215 220
 Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu
 225 230 235 240
 Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu
 245 250 255
 Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly
 260 265 270
 Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys
 275 280 285
 Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln
 290 295 300
 Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg
 305 310 315 320
 Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys
 325 330 335
 Arg Ala Gln Leu Arg Ala Lys Ala Asn
 340 345

<210> 5866

<211> 194

<212> PRT

<213> Homo sapiens

<400> 5866

Arg Thr Ser Met Gly Ile Leu Tyr Ser Glu Pro Ile Cys Gln Ala Ala
 1 5 10 15
 Tyr Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser
 20 25 30
 Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile
 35 40 45

5156

Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg
 50 55 60
 Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu
 65 70 75 80
 His Tyr Ala Val Lys Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile
 85 90 95
 Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser
 100 105 110
 Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly
 115 120 125
 Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr
 130 135 140
 Ala Cys Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu Leu Glu Ala
 145 150 155 160
 Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp
 165 170 175
 Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys
 180 185 190
 Ala Leu

<210> 5867

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

5157

<220>

<221> SITE

<222> (436)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5867

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Ser Ala Ser Phe Ser Arg Gly Xaa Gln Leu Ser Phe Thr Asp Leu Gly
 1           5           10           15

Leu Pro Pro Thr Asp His Leu Gln Ala Ser Phe Gly Phe Gln Thr Phe
          20           25           30

Gln Pro Ser Gly Ile Leu Leu Asp His Gln Thr Trp Thr Arg Xaa Leu
          35           40           45

Gln Val Thr Leu Glu Asp Gly Tyr Ile Glu Leu Ser Thr Ser Asp Ser
          50           55           60

Xaa Gly Pro Ile Phe Lys Ser Pro Gln Thr Tyr Met Asp Gly Leu Leu
 65           70           75           80

His Tyr Val Ser Val Ile Ser Asp Asn Ser Gly Leu Arg Leu Leu Ile
          85           90           95

Asp Asp Gln Leu Leu Arg Asn Ser Lys Arg Leu Lys His Ile Ser Ser
          100          105          110

Ser Arg Gln Ser Leu Arg Leu Gly Gly Ser Asn Phe Glu Gly Cys Ile
          115          120          125

Ser Asn Val Phe Val Gln Arg Leu Ser Leu Ser Pro Glu Val Leu Asp
          130          135          140

Leu Thr Ser Asn Ser Leu Lys Arg Asp Val Ser Leu Gly Gly Cys Ser
          145          150          155          160

Leu Asn Lys Pro Pro Phe Leu Met Leu Leu Lys Gly Ser Thr Arg Phe
          165          170          175

Asn Lys Thr Lys Thr Phe Arg Ile Asn Gln Leu Leu Gln Asp Thr Pro
          180          185          190

Val Ala Ser Pro Arg Ser Val Lys Val Trp Gln Asp Ala Cys Ser Pro
          195          200          205

Leu Pro Lys Thr Gln Ala Asn His Gly Ala Leu Gln Phe Gly Asp Ile
          210          215          220

Pro Thr Ser His Leu Leu Phe Lys Leu Pro Gln Glu Leu Leu Lys Pro
          225          230          235          240

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5158

Arg Ser Gln Phe Ala Val Asp Met Gln Thr Thr Ser Ser Arg Gly Leu
 245 250 255
 Val Phe His Thr Gly Thr Lys Asn Ser Phe Met Ala Leu Tyr Leu Ser
 260 265 270
 Lys Gly Arg Leu Val Phe Ala Leu Gly Thr Asp Gly Lys Lys Leu Arg
 275 280 285
 Ile Lys Ser Lys Glu Lys Cys Asn Asp Gly Lys Trp His Thr Val Val
 290 295 300
 Phe Gly His Asp Gly Glu Lys Gly Arg Leu Val Val Asp Gly Leu Arg
 305 310 315 320
 Ala Arg Glu Gly Ser Leu Pro Gly Asn Ser Thr Ile Ser Ile Arg Ala
 325 330 335
 Pro Val Tyr Leu Gly Ser Pro Pro Ser Gly Lys Pro Lys Ser Leu Pro
 340 345 350
 Thr Asn Ser Phe Val Gly Cys Leu Lys Asn Phe Gln Leu Asp Ser Lys
 355 360 365
 Pro Leu Tyr Thr Pro Ser Ser Ser Phe Gly Val Ser Ser Cys Leu Gly
 370 375 380
 Gly Pro Leu Glu Lys Gly Ile Tyr Phe Ser Glu Glu Gly Gly His Val
 385 390 395 400
 Val Leu Ala His Ser Val Leu Leu Gly Pro Glu Phe Lys Leu Val Phe
 405 410 415
 Ser Ile Arg Pro Arg Ser Leu Thr Gly Ile Leu Ile His Ile Gly Ser
 420 425 430
 Gln Pro Gly Xaa Ala Leu Met Cys Leu Pro Gly Gly Arg Lys Gly His
 435 440 445
 Gly Leu Tyr Gly Gln Trp Gly Arg Trp Asp Leu Asn Val Gly His Thr
 450 455 460
 Lys Ala Val Ser Val
 465

<210> 5868

<211> 83

<212> PRT

5159

<213> Homo sapiens

<400> 5868

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Phe Leu Ile Leu Ser Gly Glu Leu Leu Ala Arg Ile Ile Tyr Leu Gln
 1             5             10             15

Ile Ile Leu Asp Gln Arg Leu Gly Ala Gly Leu Thr Pro Ser Ser Arg
          20             25             30

Leu Gly Ala Ser Ile His Phe Leu Val Gly Leu Asn Ile Pro Pro Ala
          35             40             45

Phe Arg Arg Ile His Arg Thr Tyr Cys Ser Phe Gln Met Thr Phe Trp
          50             55             60

Lys Ile Val Pro Phe Ala Asn Arg Asn Met Pro Glu Gly Ile Phe Ser
          65             70             75             80

Ser Phe Ile

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<210> 5869

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5869

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Ser Cys Thr Arg His Gln Ser Leu Pro Gly Ser Cys Asp Glu Leu His
 1             5             10             15

Leu Ser Pro Phe Leu Pro Gln Pro Gln Thr Leu Ser Phe Lys Glu Gly
          20             25             30

Leu Pro Gly Ser Leu His Pro Thr Ala Pro Met Arg Leu Gly Pro Arg
          35             40             45

Val His Ser Pro Gly Gly Ser Gln Leu Ser Gly Arg Ser Phe Pro Pro
          50             55             60

Asn Ile Phe Gln Leu Leu Gly Gly Asp His Arg Ala Leu Leu Leu Lys
          65             70             75             80

Ile Trp Leu Leu Gln Arg Pro Glu Ser Gln Glu Gly Leu Leu Pro Gly
          85             90             95

Arg Leu Val Val Met Glu Arg Arg Val Lys Met Thr Ser Cys Pro Ser
          100             105             110

Cys Pro Arg Phe Cys

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5160

115

<210> 5870

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5870

Arg	Thr	Tyr	Phe	Pro	Val	Lys	Met	Pro	Thr	Thr	Lys	Lys	Thr	Leu	Met
1				5					10					15	

Phe	Leu	Ser	Ser	Phe	Phe	Thr	Ser	Leu	Gly	Ser	Phe	Ile	Val	Ile	Cys
			20					25					30		

Ser	Ile	Leu	Gly	Thr	Gln	Ala	Trp	Ile	Thr	Ser	Thr	Ile	Ala	Xaa	Arg
		35					40					45			

Asp	Ser	Ala	Ser	Asn	Gly	Ser	Ile	Phe	Ile	Thr	Tyr	Gly	Leu	Phe	Arg
	50					55					60				

Gly	Glu	Ser	Ser	Glu	Glu	Leu	Ser	His	Gly	Leu	Ala	Glu	Pro	Lys	Lys
65					70					75					80

Lys	Phe	Ala	Val	Leu	Glu	Ile	Leu	Asn	Asn	Ser	Ser	Gln	Lys	Asn	Ser
				85					90					95	

Ala	Phe	Gly	Asp	Tyr	Pro	Val	Pro	Gly	Pro	Glu	Phe	Asp	His	Val	Ala
			100					105					110		

Ala	Glu	Leu	Trp	Val	Tyr	Leu	Leu	Gln	Gln	His	Gln	Gln	Pro	Leu	Pro
		115					120					125			

Asp	Ile	Pro	Gly	Ala	Arg	Arg	Gly	Cys	Thr	Pro	Gly	Thr	Gly	Ser	Gly
	130					135					140				

5161

Ile Leu Arg Phe Xaa Thr Met Ile Leu Leu Xaa Arg Thr Arg Ser Pro
 145 150 155 160

Thr Asn Phe Pro Lys Val Val Gln Met Leu
 165 170

<210> 5871

<211> 173

<212> PRT

<213> Homo sapiens

<400> 5871

Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met
 1 5 10 15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
 20 25 30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Val Arg
 35 40 45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
 50 55 60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
 65 70 75 80

Lys Phe Ala Ala Ser Phe Val Phe Val Thr Met Ile Leu Phe Val Ala
 85 90 95

Asn Thr Gln Ser Asn Gln Leu Ser Glu Glu Leu Phe Gln Met Leu Tyr
 100 105 110

Pro Ala Thr Thr Ser Lys Gly Thr Thr His Ser Tyr Gly Tyr Ser Phe
 115 120 125

Trp Leu Ile Leu Leu Val Ile Leu Leu Asn Ile Val Thr Val Thr Ile
 130 135 140

Ile Ile Phe Tyr Gln Lys Ala Arg Tyr Gln Arg Lys Gln Glu Gln Arg
 145 150 155 160

Lys Pro Met Glu Tyr Ala Pro Arg Asp Gly Ile Leu Phe
 165 170

<210> 5872

5162

<211> 132

<212> PRT

<213> Homo sapiens

<400> 5872

His Arg Asn Arg Pro Ser Gln Cys His Leu Leu Asn Leu Trp Arg Pro
 1 5 10 15

Pro Asp Leu Glu Glu Pro Thr Lys Val Asp Lys Leu Gln Glu Pro Leu
 20 25 30

Leu Glu Ala Leu Lys Ile Tyr Ile Arg Lys Arg Arg Pro Ser Lys Pro
 35 40 45

His Met Phe Pro Lys Ile Leu Met Lys Ile Thr Asp Leu Arg Ser Ile
 50 55 60

Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met Glu Ile Pro
 65 70 75 80

Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn Ser Glu Gly
 85 90 95

His Glu Pro Leu Thr Pro Ser Ser Ser Gly Asn Thr Ala Glu His Ser
 100 105 110

Pro Ser Ile Ser Pro Ser Ser Val Glu Asn Ser Gly Val Ser Gln Ser
 115 120 125

Pro Leu Val Gln
 130

<210> 5873

<211> 326

<212> PRT

<213> Homo sapiens

<400> 5873

Ala His Ala Ser Ala His Ala Ser Ala Trp Val Pro Ala Pro Gln Arg
 1 5 10 15

Ser Arg Asp Ser Pro Arg Arg Arg Ala Arg Arg Pro Glu Leu Pro Lys
 20 25 30

Pro Ser Arg Ala Ala His Thr Pro Gly Leu His Ser Leu Phe Gln His
 35 40 45

Pro Leu Val Leu Ala Ala Ala Arg Val Pro Glu Thr Glu Leu Pro Gln
 50 55 60

5163

Arg Pro Arg Arg Arg Arg Cys Glu Gly Pro Met Arg Ala Pro Leu Leu
 65 70 75 80
 Pro Pro Ala Pro Val Val Leu Ser Leu Leu Ile Leu Gly Ser Gly His
 85 90 95
 Tyr Ala Ala Gly Leu Asp Leu Asn Asp Thr Tyr Ser Gly Lys Arg Glu
 100 105 110
 Pro Phe Ser Gly Asp His Ser Ala Asp Gly Phe Glu Val Thr Ser Arg
 115 120 125
 Ser Glu Met Ser Ser Gly Ser Glu Ile Ser Pro Val Ser Glu Met Pro
 130 135 140
 Ser Ser Ser Glu Pro Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu
 145 150 155 160
 Tyr Asp Asn Glu Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val
 165 170 175
 Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu
 180 185 190
 Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly
 195 200 205
 Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
 210 215 220
 Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu
 225 230 235 240
 Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly
 245 250 255
 Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser Leu Ser Lys
 260 265 270
 Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala Val Ile Leu Thr
 275 280 285
 Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg Gln Tyr Val Arg Lys
 290 295 300
 Tyr Glu Gly Glu Ala Glu Glu Arg Lys Lys Leu Arg Gln Glu Asn Gly
 305 310 315 320
 Asn Val His Ala Ile Ala
 325

5164

<210> 5874

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5874

Ala	Pro	Gln	Arg	Ser	Ser	Leu	Val	Asp	Arg	Val	Arg	Leu	His	Leu	Lys
1				5					10					15	
Lys	Ile	Lys	Ile	Lys	Leu	Phe	Ser	Glu	Glu	Gln	Met	Ser	His	Ser	Ser
			20					25					30		
Asn	Asp	Pro	Leu	Ser	Arg	Asn	Met	Val	Glu	Phe	Ser	Pro	Ile	Gln	Val
		35					40					45			
Ser	His	Ile	Gln	Lys	Thr	Thr	Ser	His	Tyr						
	50					55									

<210> 5875

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5875

Gly	Arg	Leu	Trp	Ser	Arg	Glu	Glu	Ala	Met	Ala	Thr	Met	Glu	Asn	Lys
1				5					10					15	
Val	Ile	Cys	Ala	Leu	Val	Leu	Val	Ser	Met	Leu	Ala	Leu	Gly	Thr	Leu
			20					25					30		
Ala	Glu	Ala	Gln	Thr	Glu	Thr	Cys	Thr	Val	Ala	Pro	Arg	Glu	Arg	Gln
			35				40					45			
Asn	Cys	Gly	Phe	Pro	Gly	Val	Thr	Pro	Ser	Gln	Cys	Ala	Asn	Lys	Gly
			50				55				60				
Cys	Cys	Phe	Asp	Asp	Thr	Val	Arg	Gly	Val	Pro	Trp	Cys	Phe	Tyr	Pro
	65					70				75					80
Asn	Thr	Ile	Asp	Val	Pro	Pro	Glu	Glu	Glu	Cys	Glu	Phe			
				85					90						

<210> 5876

<211> 55

5165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5876

Lys Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ile Ser
 1 5 10 15

Pro Arg Ala Arg Leu Pro Pro Xaa Pro Asp Thr Ser Asp Thr Leu Leu
 20 25 30

Gln Leu Cys Leu Gly Ser Gln His Arg Leu Thr Ala Leu Thr Leu Thr
 35 40 45

Thr Gln Asn Trp Pro Lys Asn
 50 55

<210> 5877

<211> 214

<212> PRT

<213> Homo sapiens

<400> 5877

Ala Gly Arg Pro Met Lys Val Gly His Val Thr Glu Arg Thr Asp Ala
 1 5 10 15

Ser Ser Ala Ser Ser Phe Leu Asp Ser Asp Glu Leu Glu Arg Thr Gly
 20 25 30

Ile Asp Leu Gly Thr Thr Gly Arg Leu Gln Leu Met Ala Arg Leu Ala
 35 40 45

Glu Gly Thr Gly Leu Gln Ile Pro Pro Ala Ala Gln Gln Ala Leu Gln
 50 55 60

Met Ser Gly Ser Leu Ala Phe Gly Ala Val Ala Glu Phe Ser Phe Val
 65 70 75 80

Ile Asp Leu Gln Thr Arg Leu Ser Gln Gln Thr Glu Ala Ser Ala Leu
 85 90 95

Ala Ala Ala Ala Ser Val Gln Pro Leu Ala Thr Gln Cys Phe Gln Leu
 100 105 110

Ser Asn Met Phe Asn Pro Gln Thr Glu Glu Glu Val Gly Trp Asp Thr

5166

115 120 125
 Glu Ile Lys Asp Asp Val Ile Glu Glu Cys Asn Lys His Gly Gly Val
 130 135 140
 Ile His Ile Tyr Val Asp Lys Asn Ser Ala Gln Gly Asn Val Tyr Val
 145 150 155 160
 Lys Cys Pro Ser Ile Ala Ala Ala Ile Ala Ala Val Asn Ala Leu His
 165 170 175
 Gly Arg Trp Phe Ala Gly Lys Met Ile Thr Ala Ala Tyr Val Pro Leu
 180 185 190
 Pro Thr Tyr His Asn Leu Phe Pro Asp Ser Met Thr Ala Thr Gln Leu
 195 200 205
 Leu Val Pro Ser Arg Arg
 210

<210> 5878

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5878

Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln Thr
 1 5 10 15
 Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro
 20 25 30
 Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Xaa Met
 35 40 45
 Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leu
 50 55 60
 Pro Thr Arg Arg Gly Gln Arg Cys Thr Arg Arg Pro Ser Ser Ser Pro
 65 70 75 80
 Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr
 85 90

5167

<210> 5879

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5879

Thr	Gln	Lys	Thr	Ser	Ser	Leu	Leu	Pro	Ala	Leu	Ser	Leu	Gln	Leu	Pro
1				5					10					15	

Leu	Leu	Thr	Arg	Phe	Ser	Ile	Met	Cys	Ser	Val	Lys	Glu	Glu	Phe	Trp
			20					25					30		

Arg	Val	Gln	Ser	Ile	Ile	Thr	Glu	Leu	Val	Leu	Lys	Gly	Glu	Phe	Gly
		35					40					45			

Val	Lys	Arg	Gln
	50		

<210> 5880

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5880

Ala	Asp	Asp	Ser	Phe	Phe	Thr	Gly	Ile	Ala	Phe	Xaa	Thr	Ser	Ile	Ser
1				5					10					15	

Val	Asn	Asn	Cys	Val	Cys	His	Phe	Ser	Pro	Leu	Lys	Ser	Asp	Gln	Asp
			20					25					30		

Tyr	Ile	Leu	Lys	Glu	Gly	Asp	Leu	Val	Lys	Met
		35					40			

<210> 5881

<211> 131

<212> PRT

<213> Homo sapiens

<400> 5881

Pro	Thr	Arg	Pro	Ala	Gln	Thr	Ala	Leu	Pro	Tyr	Ala	Met	Asn	Ser	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5168

1 5 10 15
 Phe Ser Ser Val Leu Ala Ala Gln Leu Lys His His Ser Glu Asn Lys
 20 25 30
 Gly Leu Asp Lys Val Met Glu Thr Gln Ala Gln Val Asp Glu Leu Lys
 35 40 45
 Gly Ile Met Val Arg Asn Ile Asp Leu Val Ala Gln Arg Gly Glu Arg
 50 55 60
 Leu Glu Leu Leu Ile Asp Lys Thr Glu Asn Leu Val Asp Ser Ser Val
 65 70 75 80
 Thr Phe Lys Thr Thr Ser Arg Asn Leu Ala Arg Ala Met Cys Met Lys
 85 90 95
 Asn Leu Lys Leu Thr Ile Ile Ile Ile Ile Val Ser Ile Val Phe Ile
 100 105 110
 Tyr Ile Ile Val Ser Pro Leu Cys Gly Gly Phe Thr Trp Pro Ser Cys
 115 120 125
 Val Lys Lys
 130

<210> 5882

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5882

Asn Phe Gly Ile Lys Asp Lys Pro Thr Phe Ile Lys Gly Ile Gly Ala
 1 5 10 15
 Gly Gly Ser Ile Thr Gly Leu Lys Phe Asn Pro Leu Asn Thr Asn Gln
 20 25 30
 Phe Tyr Ala Ser Ser Met Glu Gly Thr Thr Arg Leu Gln Asp Phe Lys
 35 40 45
 Gly Asn Ile Leu Arg Val Phe Ala Ser Ser Asp Thr Ile Asn Ile Trp
 50 55 60

5169

Phe Cys Ser Leu Asp Val Ser Ala Ser Ser Arg Met Val Val Thr Gly
 65 70 75 80
 Asp Asn Val Gly Asn Val Ile Leu Leu Asn Met Asp Gly Lys Glu Leu
 85 90 95
 Trp Asn Leu Arg Met His Lys Lys Lys Val Thr His Val Ala Leu Asn
 100 105 110
 Pro Cys Cys Asp Trp Phe Leu Ala Thr Ala Ser Val Asp Gln Thr Val
 115 120 125
 Lys Ile Trp Asp Leu Arg Gln Val Arg Gly Lys Ala Ser Phe Leu Tyr
 130 135 140
 Ser Leu Pro His Arg His Pro Val Asn Ala Ala Cys Phe Ser Pro Asp
 145 150 155 160
 Gly Ala Arg Leu Leu Thr Thr Asp Gln Lys Ser Glu Ile Arg Val Tyr
 165 170 175
 Ser Ala Ser Gln Trp Asp Cys Pro Leu Gly Leu Ile Pro His Pro His
 180 185 190
 Arg His Phe Gln Xaa Leu Thr Pro Ile Lys Ala Ala Trp Asp Pro Arg
 195 200 205
 Tyr Asn Leu Ile Val Val Gly Arg Tyr Pro Asp Pro Asn Phe Lys Ser
 210 215 220
 Cys Thr
 225

<210> 5883

<211> 484

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5883

Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser
 1 5 10 15

Leu Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu
 20 25 30

5170

His Arg Cys Ala Asp Phe Gly Met Ala Ala Asp Lys Asn Lys Phe Pro
 35 40 45
 Gly Asp Ser Val Val Thr Gly Arg Gly Arg Ile Asn Gly Arg Leu Val
 50 55 60
 Tyr Val Phe Ser Gln Asp Phe Thr Val Phe Gly Gly Ser Leu Ser Gly
 65 70 75 80
 Ala His Ala Gln Lys Ile Cys Lys Ile Met Asp Gln Ala Ile Thr Val
 85 90 95
 Gly Ala Pro Val Ile Gly Leu Asn Asp Ser Gly Gly Ala Arg Ile Gln
 100 105 110
 Glu Gly Val Glu Ser Leu Ala Gly Tyr Ala Asp Ile Phe Leu Arg Asn
 115 120 125
 Val Thr Ala Ser Gly Val Ile Pro Gln Ile Ser Leu Ile Met Gly Pro
 130 135 140
 Cys Ala Gly Gly Ala Val Tyr Ser Pro Ala Leu Thr Asp Phe Thr Phe
 145 150 155 160
 Met Val Lys Asp Thr Ser Tyr Leu Phe Ile Thr Gly Pro Asp Val Val
 165 170 175
 Lys Ser Val Thr Asn Glu Asp Val Thr Gln Glu Glu Leu Gly Gly Ala
 180 185 190
 Lys Thr His Thr Thr Met Ser Gly Val Ala His Arg Ala Phe Glu Asn
 195 200 205
 Asp Val Asp Ala Leu Cys Asn Leu Arg Asp Phe Phe Asn Tyr Leu Pro
 210 215 220
 Leu Ser Ser Gln Asp Pro Ala Pro Val Arg Glu Cys His Asp Pro Ser
 225 230 235 240
 Asp Arg Leu Val Pro Glu Leu Asp Thr Ile Val Pro Leu Glu Ser Thr
 245 250 255
 Lys Ala Tyr Asn Met Val Asp Ile Ile His Ser Val Val Asp Glu Arg
 260 265 270
 Glu Phe Phe Glu Ile Met Pro Asn Tyr Ala Lys Asn Ile Ile Val Gly
 275 280 285
 Phe Ala Arg Met Asn Gly Arg Thr Val Gly Ile Val Gly Asn Gln Pro
 290 295 300

5171

Lys Val Ala Ser Gly Cys Leu Asp Ile Asn Ser Ser Val Lys Gly Ala
 305 310 315 320
 Arg Phe Val Arg Phe Cys Asp Ala Phe Asn Ile Pro Leu Ile Thr Phe
 325 330 335
 Val Asp Val Pro Gly Phe Leu Pro Gly Thr Ala Gln Glu Tyr Gly Gly
 340 345 350
 Ile Ile Arg His Gly Ala Lys Leu Leu Tyr Ala Phe Ala Glu Ala Thr
 355 360 365
 Val Pro Lys Val Thr Val Ile Thr Arg Lys Ala Tyr Gly Gly Ala Tyr
 370 375 380
 Asp Val Met Ser Ser Lys His Leu Cys Gly Asp Thr Asn Tyr Ala Trp
 385 390 395 400
 Pro Thr Ala Glu Ile Ala Val Met Gly Ala Lys Gly Ala Val Glu Ile
 405 410 415
 Ile Phe Lys Gly His Glu Asn Val Glu Ala Ala Gln Ala Glu Tyr Ile
 420 425 430
 Glu Lys Phe Ala Asn Pro Phe Pro Ala Ala Val Arg Gly Phe Val Asp
 435 440 445
 Asp Ile Ile Gln Pro Ser Ser Thr Arg Ala Arg Ile Cys Cys Asp Leu
 450 455 460
 Asp Val Leu Ala Ser Lys Lys Val Gln Arg Pro Trp Arg Lys His Ala
 465 470 475 480
 Asn Ile Pro Leu

<210> 5884

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5172

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5884

Asn	Lys	Met	Lys	Ile	Phe	Ser	Glu	Ser	His	Lys	Thr	Val	Phe	Val	Val
1				5					10					15	

Asp	His	Cys	Pro	Tyr	Met	Ala	Glu	Ser	Cys	Arg	Gln	His	Val	Glu	Phe
			20					25					30		

Asp	Met	Leu	Val	Lys	Asn	Arg	Thr	Gln	Gly	Ile	Ile	Pro	Leu	Ala	Pro
		35					40					45			

Ile	Ser	Lys	Ser	Leu	Trp	Thr	Xaa	Ser	Val	Glu	Ser	Ser	Xaa	Glu	Tyr
	50					55					60				

Cys	Arg	Ile	Met	Tyr	Asp	Ile	Phe	Pro	Phe	Lys	Lys	Leu	Val	Asn	Phe
65					70					75					80

Ile	Val	Ser	Asp	Ser	Gly	Ala	His	Val	Leu	Asn	Ser	Trp	Thr	Gln	Glu
				85					90					95	

Asp	Gln	Asn	Leu	Gln	Glu	Leu	Met	Ala	Ala	Leu	Ala	Ala	Xaa	Gly	Pro
			100					105					110		

Pro	Asn	Pro	Arg	Ala	Asp	Pro	Glu	Cys	Cys	Ser	Ile	Leu	His	Gly	Leu
		115					120					125			

Val	Ala	Ala	Val	Glu	Thr	Leu	Cys	Lys	Ile	Thr	Glu	Tyr	Gln	His	Glu
	130					135					140				

Ala	Arg	Thr	Leu	Leu	Met	Glu	Asn	Ala	Glu	Arg	Val	Gly	Asn	Arg	Gly
145					150					155					160

Arg	Ile	Ile	Cys	Ile	Thr	Asn	Ala	Lys	Ser	Asp	Ser	His	Val	Arg	Met
				165					170					175	

5173

Leu Glu Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala
180 185 190

Ala Asn Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu
195 200 205

Ile His Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser
210 215 220

Lys Lys Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg
225 230 235 240

Ala Gly Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His
245 250 255

Phe Asp Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu
260 265 270

Gln His Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His
275 280 285

Lys Asp Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly
290 295 300

Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp
305 310 315 320

Cys Thr Pro Arg Xaa Lys Xaa Thr Leu Cys Phe Leu Leu Phe Gln Glu
325 330 335

Leu His Tyr Cys Thr Gly Ala Leu
340

<210> 5885

<211> 365

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

5174

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5885

Pro	Glu	His	Ser	Trp	Ser	Ser	Ser	Ser	Ser	Thr	Lys	Arg	Trp	Thr	Glu
1				5					10					15	
Lys	Thr	Ala	Glu	Thr	Met	Gly	Pro	Pro	Ser	Ala	Pro	Pro	Cys	Arg	Leu
			20					25					30		
His	Val	Pro	Trp	Lys	Glu	Val	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe
		35					40					45			
Trp	Asn	Pro	Pro	Thr	Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe
	50					55					60				
Asn	Val	Ala	Glu	Gly	Lys	Glu	Val	Leu	Leu	Leu	Ala	His	Asn	Leu	Pro
65					70					75					80
Gln	Asn	Arg	Ile	Gly	Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly
				85					90					95	
Asn	Ser	Leu	Ile	Val	Gly	Tyr	Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr	Pro
			100					105					110		
Gly	Pro	Ala	Tyr	Ser	Gly	Arg	Glu	Thr	Ile	Tyr	Pro	Asn	Ala	Ser	Leu
		115					120					125			
Leu	Ile	Gln	Asn	Val	Thr	Gln	Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	Gln
	130						135				140				
Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Xaa	Thr	Gly	Gln	Phe	His
145					150					155					160
Val	Tyr	Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Xaa	Ser	Asn	Asn	Ser	Asn
				165					170					175	
Pro	Val	Glu	Asp	Lys	Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Xaa
			180					185					190		
Gln	Asn	Thr	Thr	Tyr	Leu	Trp	Trp	Val	Asn	Gly	Gln	Ser	Leu	Pro	Val
		195					200					205			
Ser	Pro	Arg	Leu	Gln	Leu	Ser	Asn	Gly	Asn	Met	Thr	Leu	Thr	Leu	Leu
	210					215					220				
Ser	Val	Lys	Arg	Asn	Asp	Ala	Gly	Ser	Tyr	Glu	Cys	Glu	Ile	Gln	Asn
225					230					235					240

Pro	Ala	Ser	Ala	Asn	Arg	Ser	Asp	Pro	Val	Thr	Leu	Asn	Val	Leu	Tyr				
				245						250						255			
Gly	Pro	Asp	Gly	Pro	Thr	Ile	Ser	Pro	Ser	Lys	Ala	Asn	Tyr	Arg	Pro				
				260						265						270			
Gly	Glu	Asn	Leu	Asn	Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro	Ala				
				275						280						285			
Gln	Tyr	Ser	Trp	Phe	Ile	Asn	Gly	Thr	Phe	Gln	Gln	Ser	Thr	Gln	Glu				
				290						295						300			
Leu	Phe	Ile	Pro	Asn	Ile	Thr	Val	Asn	Asn	Ser	Gly	Ser	Tyr	Met	Cys				
305						310						315						320	
Gln	Ala	His	Asn	Ser	Ala	Thr	Gly	Leu	Asn	Arg	Thr	Thr	Val	Thr	Met				
				325						330						335			
Ile	Thr	Val	Ser	Gly	Ser	Ala	Pro	Val	Leu	Ser	Ala	Val	Ala	Thr	Val				
				340						345						350			
Gly	Ile	Thr	Ile	Gly	Val	Leu	Ala	Arg	Val	Ala	Leu	Ile							
				355						360						365			

Cys Lys Gly Arg Arg Arg Asn Pro Asp Ala Ala Ser Glu Val Gln Ala
35 40 45

5176

His Leu Val Asn Met His Cys His Glu Phe Leu Pro Asp Val Leu Leu
 50 55 60

Phe Ser Phe Thr Tyr Ser Phe Asp Gln Ile Val Cys Gly Leu Asn Lys
 65 70 75 80

Met Lys Ile Ser Ser Pro Leu Phe Leu Gly Asn Thr Leu
 85 90

<210> 5887
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 5887
 Leu Cys Glu Lys Trp Ala Gln Trp Pro Ser Pro Glu Ile Ser Phe Ile
 1 5 10 15

Leu Gly Gln Glu Phe Asp Glu Val Thr Ala Asp Asp Arg Lys Val Lys
 20 25 30

Ser Thr Ile Thr Leu Asp Gly Gly Val Leu Val His Val Gln Lys Trp
 35 40 45

Asp Gly Lys Ser Thr Thr Ile Lys Arg Lys Arg Glu Asp Asp Lys Leu
 50 55 60

Val Val Glu Cys Val Met Lys Gly Val Thr Ser Thr Arg Val Tyr Glu
 65 70 75 80

Arg Ala

<210> 5888
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 5888
 Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu
 1 5 10 15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly
 20 25 30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly
 35 40 45

5177

Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe
 50 55 60

Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu Pro Gly Lys Asn
 65 70 75 80

Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr
 85 90 95

Leu Ala Leu Ile Pro Cys
 100

<210> 5889
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 5889
 Tyr Pro Leu Phe Thr Ile Met Leu Phe Glu Thr Lys Val Thr Met Tyr
 1 5 10 15

Thr Ile Leu Leu Glu Glu Val Phe Asp Arg Lys Ser Asn Ile Met Ser
 20 25 30

Phe Ile Asn Phe Leu Val Leu Lys Lys Ala Val Ile Tyr Ile Tyr Lys
 35 40 45

Leu Cys Lys
 50

<210> 5890
 <211> 239
 <212> PRT
 <213> Homo sapiens

<400> 5890
 Glu Tyr Gly Ser Pro Ser Val Ile Ser Val Ser Lys Gly Ser Pro Asp
 1 5 10 15

Gly Ser His Pro Val Val Val Ala Pro Tyr Asn Gly Gly Pro Pro Arg
 20 25 30

Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser Cys Thr His Leu
 35 40 45

Gly Ala Gly Pro Pro Leu Ser Asn Gly His Arg Pro Ala Ala His Asp

5178

50 55 60
 Phe Pro Leu Gly Arg Gln Leu Pro Ser Arg Thr Thr Pro Thr Leu Gly
 65 70 75 80
 Leu Glu Glu Val Leu Ser Ser Arg Asp Cys His Pro Ala Leu Pro Leu
 85 90 95
 Pro Pro Gly Phe His Pro His Pro Gly Pro Asn Tyr Pro Ser Phe Leu
 100 105 110
 Pro Asp Gln Met Gln Pro Gln Val Pro Pro Leu His Tyr Gln Glu Leu
 115 120 125
 Met Pro Pro Gly Ser Cys Met Pro Glu Glu Pro Lys Pro Lys Arg Gly
 130 135 140
 Arg Arg Ser Trp Pro Arg Lys Arg Thr Ala Thr His Thr Cys Asp Tyr
 145 150 155 160
 Ala Gly Cys Gly Lys Thr Tyr Thr Lys Ser Ser His Leu Lys Ala His
 165 170 175
 Leu Arg Thr His Thr Gly Glu Lys Pro Tyr His Cys Asp Trp Asp Gly
 180 185 190
 Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg
 195 200 205
 Lys His Thr Gly His Arg Pro Phe Gln Cys Gln Lys Cys Asp Arg Ala
 210 215 220
 Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Phe
 225 230 235

<210> 5891

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5891

Leu Val Pro Asn Ser Ala Arg Val Gly Thr Arg Ser Lys Gly Val Cys
 1 5 10 15
 Val His Gly Asn Ala Glu Tyr Gln Pro Gly Ser Pro Val Tyr Ser Ser
 20 25 30
 Lys Cys Gln Asp Cys Val Cys Thr Asp Lys Val Asp Asn Asn Thr Leu
 35 40 45

5179

Leu Asn Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser
 50 55 60
 Pro Gly Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys
 65 70 75 80
 Glu Gln Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile
 85 90 95
 Leu Lys Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe
 100 105 110
 Phe Ser Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn
 115 120 125
 Ile Thr Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile
 130 135 140
 Thr Phe Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu
 145 150 155 160
 Thr Arg Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr
 165 170 175
 Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys
 180 185 190
 Gly Thr Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser
 195 200 205
 Cys Ser Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu
 210 215 220
 Ser Cys Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu
 225 230 235 240
 Ser Cys Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser
 245 250 255
 Arg Arg Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly
 260 265

<210> 5892

<211> 227

<212> PRT

<213> Homo sapiens

<220>

5180

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5892

Ala Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu Ser
1 5 10 15

Leu Gly Met Thr Val Ala Gly Gly Ala Ser His Arg Xaa Trp Asp Leu
20 25 30

Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp
35 40 45

Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu
50 55 60

Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr
65 70 75 80

Ser Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro
85 90 95

Gln Glu Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met
100 105 110

Ala Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu
115 120 125

Pro	Arg	Cys	Leu	Tyr	Asn	Cys	Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr
130						135					140				

Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn
145 150 155 160

Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala
165 170 175

Tyr Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn
180 185 190

Gly Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu
195 200 205

Lys Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly
210 215 220

Thr Phe Leu
225

5181

<210> 5893

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5893

Ser Ser His Phe Tyr Ala Lys Gln Glu Xaa Ser Ile Thr Leu Val Leu
 1 5 10 15

Met Tyr Thr Leu His Phe Asp Lys Ile Asn Phe Val Val Ser Phe Glu
 20 25 30

Val Asp Arg Cys Val Val Val Leu Leu His Phe Leu Leu Phe Cys Val
 35 40 45

Trp Ser Cys Ile Pro Glu Thr Asn Glu Ala Leu Gly Tyr Phe Ile Lys
 50 55 60

Cys Ser Asp Cys Gln Gln Arg Ala Gly Phe Leu Phe Leu Cys Cys Gly
 65 70 75 80

Val Asn Arg Thr Met Val Trp Glu
 85

<210> 5894

<211> 571

<212> PRT

<213> Homo sapiens

<400> 5894

Arg Val Arg Ser Lys Val Pro Arg Cys Val Asn Thr Gln Pro Gly Phe
 1 5 10 15

His Cys Leu Pro Cys Pro Pro Arg Tyr Arg Gly Asn Gln Pro Val Gly
 20 25 30

Val Gly Leu Glu Ala Ala Lys Thr Glu Lys Gln Val Cys Glu Pro Glu
 35 40 45

Asn Pro Cys Lys Asp Lys Thr His Asn Cys His Lys His Ala Glu Cys
 50 55 60

Ile Tyr Leu Gly His Phe Ser Asp Pro Met Tyr Lys Cys Glu Cys Gln

5182

65		70		75		80
Thr Gly Tyr Ala Gly Asp Gly Leu Ile Cys Gly Glu Asp Ser Asp Leu						
	85		90		95	
Asp Gly Trp Pro Asn Leu Asn Leu Val Cys Ala Thr Asn Ala Thr Tyr						
	100		105		110	
His Cys Ile Lys Asp Asn Cys Pro His Leu Pro Asn Ser Gly Gln Glu						
	115		120		125	
Asp Phe Asp Lys Asp Gly Ile Gly Asp Ala Cys Asp Asp Asp Asp Asp						
	130		135		140	
Asn Asp Gly Val Thr Asp Glu Lys Asp Asn Cys Gln Leu Leu Phe Asn						
	145		150		155	160
Pro Arg Gln Ala Asp Tyr Asp Lys Asp Glu Val Gly Asp Arg Cys Asp						
	165		170		175	
Asn Cys Pro Tyr Val His Asn Pro Ala Gln Ile Asp Thr Asp Asn Asn						
	180		185		190	
Gly Glu Gly Asp Ala Cys Ser Val Asp Ile Asp Gly Asp Asp Val Phe						
	195		200		205	
Asn Glu Arg Asp Asn Cys Pro Tyr Val Tyr Asn Thr Asp Gln Arg Asp						
	210		215		220	
Thr Asp Gly Asp Gly Val Gly Asp His Cys Asp Asn Cys Pro Leu Val						
	225		230		235	240
His Asn Pro Asp Gln Thr Asp Val Asp Asn Asp Leu Val Gly Asp Gln						
	245		250		255	
Cys Asp Asn Asn Glu Asp Ile Asp Asp Asp Gly His Gln Asn Asn Gln						
	260		265		270	
Asp Asn Cys Pro Tyr Ile Ser Asn Ala Asn Gln Ala Asp His Asp Arg						
	275		280		285	
Asp Gly Gln Gly Asp Ala Cys Asp Pro Asp Asp Asp Asn Asp Gly Val						
	290		295		300	
Pro Asp Asp Arg Asp Asn Cys Arg Leu Val Phe Asn Pro Asp Gln Glu						
	305		310		315	320
Asp Leu Asp Gly Asp Gly Arg Gly Asp Ile Cys Lys Asp Asp Phe Asp						
	325		330		335	
Asn Asp Asn Ile Pro Asp Ile Asp Asp Val Cys Pro Glu Asn Asn Ala						

5183

340	345	350
Ile Ser Glu Thr Asp Phe Arg Asn Phe Gln Met Val Pro Leu Asp Pro		
355	360	365
Lys Gly Thr Thr Gln Ile Asp Pro Asn Trp Val Ile Arg His Gln Gly		
370	375	380
Lys Glu Leu Val Gln Thr Ala Asn Ser Asp Pro Gly Ile Ala Val Gly		
385	390	395
Phe Asp Glu Phe Gly Ser Val Asp Phe Ser Gly Thr Phe Tyr Val Asn		
405	410	415
Thr Asp Arg Asp Asp Asp Tyr Ala Gly Phe Val Phe Gly Tyr Gln Ser		
420	425	430
Ser Ser Arg Phe Tyr Val Val Met Trp Lys Gln Val Thr Gln Thr Tyr		
435	440	445
Trp Glu Asp Gln Pro Thr Arg Ala Tyr Gly Tyr Ser Gly Val Ser Leu		
450	455	460
Lys Val Val Asn Ser Thr Thr Gly Thr Gly Glu His Leu Arg Asn Ala		
465	470	475
Leu Trp His Thr Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His		
485	490	495
Asp Pro Arg Asn Ile Gly Trp Lys Asp Tyr Thr Ala Tyr Arg Trp His		
500	505	510
Leu Thr His Arg Pro Lys Thr Gly Tyr Ile Arg Val Leu Val His Glu		
515	520	525
Gly Lys Gln Val Met Ala Asp Ser Gly Pro Ile Tyr Asp Gln Thr Tyr		
530	535	540
Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val Tyr		
545	550	555
Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile		
565	570	

<210> 5895

<211> 59

<212> PRT

<213> Homo sapiens

5184

<400> 5895

Asn Phe Leu Asn Glu Met Ile Asn Arg Trp Asn Leu Lys Tyr Ile Leu
 1 5 10 15

Leu Gln Lys Arg Phe Leu Ser Leu Leu Tyr Phe Asp Asp Cys Phe Leu
 20 25 30

Lys Ile Lys Ile Cys Ser Cys Ser Phe Ile Arg Leu Phe Lys Leu Cys
 35 40 45

Phe Pro Leu Ile Phe Phe His His Cys Ile Tyr
 50 55

<210> 5896

<211> 176

<212> PRT

<213> Homo sapiens

<400> 5896

Arg Pro Thr Arg Pro Ser Arg Asp Cys Glu Gly Glu Arg Ser Lys Pro
 1 5 10 15

Arg Arg Arg Trp Lys Gly Trp Arg Thr His Leu Asn Met Trp Asn Pro
 20 25 30

Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro Asn Ile Gly Cys
 35 40 45

Pro Gly Gly Ser Asn Pro Ala His Pro Pro Pro Ile Asn Pro Pro Phe
 50 55 60

Pro Pro Gly Pro Cys Pro Pro Pro Pro Gly Ala Pro His Gly Asn Pro
 65 70 75 80

Ala Phe Pro Pro Gly Gly Pro Pro His Pro Val Pro Gln Pro Gly Tyr
 85 90 95

Pro Gly Cys Gln Pro Leu Gly Pro Tyr Pro Pro Pro Tyr Pro Pro Pro
 100 105 110

Ala Pro Gly Ile Pro Pro Val Asn Pro Leu Ala Pro Gly Met Val Gly
 115 120 125

Pro Ala Val Ile Val Asp Lys Lys Met Gln Lys Lys Met Lys Lys Ala
 130 135 140

His Lys Lys Met His Lys His Gln Lys His His Lys Tyr His Lys His
 145 150 155 160

Gly Lys His Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp
165 170 175

<400> 5897
Leu Gly Gly Cys Arg Asp Val Pro Ser Leu Thr Leu Leu Ser Thr Val
1 5 10 15

Ala Asp Thr Trp Gly Ser Val Glu Leu Pro Ile Val Gly Lys Ala Phe
35 40 45

Ile Arg Pro Phe Arg Glu His His Ile Asp Pro Thr Ala Ile Thr Arg
50 55 60

His Asp Phe Ile Glu Thr Asn Gly Asp Asn Cys Leu Val Thr Leu Leu
65 70 75 80

Pro Leu Leu Asn Met Ala Tyr Lys Phe Arg Thr His Ser Pro Glu Ala
85 90 95

Leu Glu Gln Leu Tyr Pro Trp Glu Cys Phe Val Phe Cys Leu Ile Ile
100 105 110

Phe Gly Thr Phe Thr Asn Gln Ile His Lys Trp Ser His Thr Tyr Phe
115 120 125

Gly Leu Pro Arg Trp Val Thr Leu Leu Gln Asp Trp His Val Ile Leu
130 135 140

Pro	Arg	Lys	His	His	Arg	Ile	His	His	Val	Ser	Pro	His	Glu	Thr	Tyr
145					150					155					160

Phe Cys Ile Thr Thr Gly Trp Leu Asn Tyr Pro Leu Glu Lys Ile Gly
165 170 175

Phe Trp Arg Arg Leu Glu Asp Leu Ile Gln Gly Leu Thr Gly Glu Lys
180 185 190

Pro Arg Ala Asp Asp Met Lys Trp Ala Gln Lys Ile Lys

5186

195

200

205

<210> 5898

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5898

Lys	Trp	Leu	Leu	Val	Asn	Phe	Asp	Cys	Ser	Ala	Met	Trp	Val	Lys	Lys
1				5					10					15	

Arg	Thr	Asp	Leu	Thr	Gly	Ala	Phe	Arg	Leu	Asp	Pro	Thr	Tyr	Leu	Lys
			20					25					30		

His	Ser	His	Gln	Asp	Ser	Gly	Leu	Ile	Thr	Asp	Tyr	Arg	His	Trp	Gln
		35					40					45			

Ile	Pro	Leu	Gly	Arg	Arg	Phe	Arg	Ser	Leu	Lys	Met	Trp	Phe	Val	Phe
	50					55					60				

Arg	Met	Tyr	Gly	Val	Lys	Gly	Leu	Gln	Ala	Tyr	Ile	Arg	Lys	His	Val
65					70					75				80	

Gln	Leu	Ser	Xaa	Xaa	Phe	Glu	Ser	Leu	Val	Arg	Gln	Gly	Ser	Pro	Leu
			85						90					95	

<210> 5899

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

5187

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5899

Leu Xaa His Pro Phe Ala Val Thr Ser Tyr Gly Lys Asn Leu Tyr Phe
1 5 10 15

Thr Asp Trp Lys Met Asn Ser Val Val Ala Leu Asp Leu Ala Ile Ser
20 25 30

Lys Glu Thr Asp Ala Phe Gln Pro His Lys Gln Thr Arg Leu Tyr Gly
35 40 45

Ile Thr Thr Ala Leu Ser Gln Cys Pro Gln Gly His Asn Tyr Cys Ser
50 55 60

Val Asn Asn Gly Gly Cys Thr His Leu Cys Leu Ala Thr Pro Gly Ser
65 70 75 80

Arg Thr Cys Arg Cys Pro Asp Asn Thr Leu Gly Val Asp Cys Ile Glu
85 90 95

Gln Lys

<210> 5900

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5900

Glu Ile Ser Ala Phe Leu Ile Ser Ser Asn Tyr Lys Arg Thr Ala Val
1 5 10 15

Phe Phe His Thr His Leu Pro Glu Gly Arg Ile Gly Ser His Ile Tyr
20 25 30

Val Tyr Glu Arg Lys Leu Lys Gly Lys Phe Asn Met Lys Met Lys Phe
35 40 45

<210> 5901

<211> 87

<212> PRT

<213> Homo sapiens

5188

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5901
 Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val
 1 5 10 15
 Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile
 20 25 30
 Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro
 35 40 45
 Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys
 50 55 60
 Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile
 65 70 75 80
 Leu Leu Leu Leu Asn Val Met
 85

<210> 5902
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 5902
 Leu Asn Trp Leu Leu Gln Gly Glu Gly Gln Lys Ala Arg Pro Ser Ala
 1 5 10 15
 Leu Glu Ser Arg Pro Glu Val Ser Gly Lys Leu Thr Leu Lys Met Asp
 20 25 30
 Thr Pro Gln Pro Ala Leu Pro Phe Gly Leu Pro Arg Ile Ser Phe Ser
 35 40 45

5189

Gly Cys Ser His Thr Cys Ala Ile Thr Ser Ser Ser Met Thr Trp Thr
 50 55 60

Gly Thr Ser Leu Thr Ile Pro Ile Gly Ile Thr Arg Ala Thr Asn Tyr
 65 70 75 80

Ala Val Phe

<210> 5903

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5903

Arg Arg Cys Cys His Ser Ala Thr Met Phe Glu Ala Arg Leu Val Gln
 1 5 10 15

Gly Ser Ile Leu Lys Lys Val Leu Glu Ala Leu Lys Asp Leu Ile Asn
 20 25 30

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met
 35 40 45

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly
 50 55 60

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu
 65 70 75 80

Thr Ser Met Ser Lys Ile Leu Lys Cys Ala Gly Asn Glu Asp Ile Ile
 85 90 95

Thr Leu Arg Ala Glu Asp Asn Ala Asp Thr Leu Ala Leu Val Phe Glu
 100 105 110

Ala Pro Asn Gln Glu Lys Val Ser Asp Tyr Glu Met Lys Leu Met Asp
 115 120 125

Leu Asp Val Glu Gln Leu Gly Ile Pro Glu Gln Glu Tyr Ser Cys Val
 130 135 140

Val Lys Met Pro Ser Gly Glu Phe Ala Arg Ile Cys Arg Asp Leu Ser
 145 150 155 160

His Ile Gly Asp Ala Val Val Ile Ser Cys Ala Lys Asp Gly Val Lys
 165 170 175

Phe Ser Ala Ser Gly Glu Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln

5190

180	185	190
Thr Ser Asn Val Asp Lys Glu Glu Glu Ala Val Thr Ile Glu Met Asn		
195	200	205
Glu Pro Val Gln Leu Thr Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr		
210	215	220
Lys Ala Thr Pro Leu Ser Ser Thr Val Thr Leu Ser Met Ser Ala Asp		
225	230	235
Val Pro Leu Val Val Glu Tyr Lys Ile Ala Asp Met Gly His Leu Lys		
245	250	255
Tyr Tyr Leu Ala Pro Lys Ile Glu Asp Glu Glu Gly Ser		
260	265	

<210> 5904

<211> 211

<212> PRT

<213> Homo sapiens

<400> 5904

Asn Lys Met Lys Lys Val Arg Leu Lys Glu Leu Glu Ser Arg Leu Gln
1 5 10 15
Gln Val Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Glu Gln Tyr Pro
20 25 30
Thr Arg Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr
35 40 45
Tyr Asp Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys
50 55 60
Gly Val Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val
65 70 75 80
Gly Phe Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala
85 90 95
Glu Glu Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys
100 105 110
Leu Leu Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn
115 120 125
Pro Pro Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu
130 135 140

5191

Lys Thr Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys
 145 150 155 160

Ser Ser Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile
 165 170 175

Lys Ile Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr
 180 185 190

Lys Phe His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg
 195 200 205

Phe Ser Phe
 210

<210> 5905

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5905

Lys Phe Leu Leu Lys Val Asn Phe Pro Glu Asn Gly Phe Leu Ser Pro
 1 5 10 15

Asp Lys Leu Ser Leu Leu Glu Lys Leu Leu Pro Glu Arg Lys Glu Val
 20 25 30

Glu Glu Thr Asp Glu Met Asp Gln Val Glu Leu Val Asp Phe Asp Pro
 35 40 45

Asn Gln Glu Arg Arg Arg His Tyr Asn Gly Glu Ala Tyr Glu Asp Asp
 50 55 60

Glu His His Pro Arg Gly Gly Val Gln Cys Gln Thr Ser
 65 70 75

<210> 5906

<211> 142

<212> PRT

<213> Homo sapiens

<400> 5906

Ser Trp Glu Thr Glu Lys Met Gln Thr Ala Gly Ala Leu Phe Ile Ser
 1 5 10 15

Pro Ala Leu Ile Arg Cys Cys Thr Arg Gly Leu Ile Arg Pro Val Ser

5192

20 25 30
 Ala Ser Phe Leu Asn Ser Pro Val Asn Ser Ser Lys Gln Pro Ser Tyr
 35 40 45
 Ser Asn Phe Pro Leu Gln Val Ala Arg Arg Glu Phe Gln Thr Ser Val
 50 55 60
 Val Ser Arg Asp Ile Asp Thr Ala Ala Lys Phe Ile Gly Ala Gly Ala
 65 70 75 80
 Ala Thr Val Gly Val Ala Gly Ser Gly Ala Gly Ile Gly Thr Val Phe
 85 90 95
 Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn Pro Ser Leu Lys Gln Gln
 100 105 110
 Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala Leu Ser Glu Ala Met Gly
 115 120 125
 Leu Phe Cys Leu Met Val Ala Phe Leu Ile Leu Phe Ala Met
 130 135 140

<210> 5907

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5907

Thr Cys Pro Phe Leu Gln Glu Phe Ser Leu Gly Met Trp Ser Cys Leu
 1 5 10 15

His Ala Val Leu Glu Leu Ile Asp Ser Gln Gln Gln Asp Arg Tyr Trp
 20 25 30

Cys Pro Pro Xaa Leu His Arg Ala Ala Ile Ala Phe Leu His Ala Leu
 35 40 45

Trp Gln Asp Arg Arg Asp Ser Ala Met Leu Val Leu Arg Thr Lys
 50 55 60

<210> 5908

5193

<211> 61
 <212> PRT
 <213> Homo sapiens

<400> 5908
 Arg Asn Lys Gly Val Arg Ala Asn Ile Gln Gln Leu Leu Ser Pro Val
 1 5 10 15
 Met Lys Phe Ile Gln Thr Lys Asp Gly Met Ser Leu Tyr Ile Ile Pro
 20 25 30
 Cys Asn Lys Tyr Ser Val Lys Leu Cys Trp Cys Asn Leu Thr Cys Phe
 35 40 45
 Cys Gln Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 50 55 60

<210> 5909
 <211> 466
 <212> PRT
 <213> Homo sapiens

<400> 5909
 Val Ser Pro Arg Ala Gly Gly Ala Gly Asn Asn Arg Gly Arg Ala His
 1 5 10 15
 Arg Ala Ser Ser Cys Ser Leu Pro Ala Pro Pro Ala Thr Leu Asp Pro
 20 25 30
 Arg Ile Pro Pro Ala Arg Leu Pro Ala Met Ala Asp Lys Glu Ala Ala
 35 40 45
 Phe Asp Asp Ala Val Glu Glu Arg Val Ile Asn Glu Glu Tyr Lys Ile
 50 55 60
 Trp Lys Lys Asn Thr Pro Phe Leu Tyr Asp Leu Val Met Thr His Ala
 65 70 75 80
 Leu Glu Trp Pro Ser Leu Thr Ala Gln Trp Leu Pro Asp Val Thr Arg
 85 90 95
 Pro Glu Gly Lys Asp Phe Ser Ile His Arg Leu Val Leu Gly Thr His
 100 105 110
 Thr Ser Asp Glu Gln Asn His Leu Val Ile Ala Ser Val Gln Leu Pro
 115 120 125
 Asn Asp Asp Ala Gln Phe Asp Ala Ser His Tyr Asp Ser Glu Lys Gly
 130 135 140

5194

Glu	Phe	Gly	Gly	Phe	Gly	Ser	Val	Ser	Gly	Lys	Ile	Glu	Ile	Glu	Ile	145	150	155	160
Lys	Ile	Asn	His	Glu	Gly	Glu	Val	Asn	Arg	Ala	Arg	Tyr	Met	Pro	Gln	165	170	175	
Asn	Pro	Cys	Ile	Ile	Ala	Thr	Lys	Thr	Pro	Ser	Ser	Asp	Val	Leu	Val	180	185	190	
Phe	Asp	Tyr	Thr	Lys	His	Pro	Ser	Lys	Pro	Asp	Pro	Ser	Gly	Glu	Cys	195	200	205	
Asn	Pro	Asp	Leu	Arg	Leu	Arg	Gly	His	Gln	Lys	Glu	Gly	Tyr	Gly	Leu	210	215	220	
Ser	Trp	Asn	Pro	Asn	Leu	Ser	Gly	His	Leu	Leu	Ser	Ala	Ser	Asp	Asp	225	230	235	240
His	Thr	Ile	Cys	Leu	Trp	Asp	Ile	Ser	Ala	Val	Pro	Lys	Glu	Gly	Lys	245	250	255	
Val	Val	Asp	Ala	Lys	Thr	Ile	Phe	Thr	Gly	His	Thr	Ala	Val	Val	Glu	260	265	270	
Asp	Val	Ser	Trp	His	Leu	Leu	His	Glu	Ser	Leu	Phe	Gly	Ser	Val	Ala	275	280	285	
Asp	Asp	Gln	Lys	Leu	Met	Ile	Trp	Asp	Thr	Arg	Ser	Asn	Asn	Thr	Ser	290	295	300	
Lys	Pro	Ser	His	Ser	Val	Asp	Ala	His	Thr	Ala	Glu	Val	Asn	Cys	Leu	305	310	315	320
Ser	Phe	Asn	Pro	Tyr	Ser	Glu	Phe	Ile	Leu	Ala	Thr	Gly	Ser	Ala	Asp	325	330	335	
Lys	Thr	Val	Ala	Leu	Trp	Asp	Leu	Arg	Asn	Leu	Lys	Leu	Lys	Leu	His	340	345	350	
Ser	Phe	Glu	Ser	His	Lys	Asp	Glu	Ile	Phe	Gln	Val	Gln	Trp	Ser	Pro	355	360	365	
His	Asn	Glu	Thr	Ile	Leu	Ala	Ser	Ser	Gly	Thr	Asp	Arg	Arg	Leu	Asn	370	375	380	
Val	Trp	Asp	Leu	Ser	Lys	Ile	Gly	Glu	Glu	Gln	Ser	Pro	Glu	Asp	Ala	385	390	395	400
Glu	Asp	Gly	Pro	Pro	Glu	Leu	Leu	Phe	Ile	His	Gly	Gly	His	Thr	Ala	405	410	415	

5195

Lys Ile Ser Asp Phe Ser Trp Asn Pro Asn Glu Pro Trp Val Ile Cys
 420 425 430

Ser Val Ser Glu Asp Asn Ile Met Gln Val Trp Gln Met Ala Glu Asn
 435 440 445

Ile Tyr Asn Asp Glu Asp Pro Glu Gly Ser Val Asp Pro Glu Gly Gln
 450 455 460

Gly Ser
 465

<210> 5910

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5910

Leu Leu Pro His Pro Phe Ser Cys Val His Val Ala Phe Ser Asn Pro
 1 5 10 15

Gly Gln Trp Phe Leu Pro Arg Pro Cys Thr Glu Ala Gly Cys Leu Pro
 20 25 30

Asp Pro Arg Arg Val Arg Glu Gly Arg Gly Ile Leu Leu Leu Glu Leu
 35 40 45

Gln Ala Leu Ala Glu Ala Val Ser His Thr Val Val Ser Ser Ala Trp
 50 55 60

Ala Gly Thr
 65

<210> 5911

<211> 212

<212> PRT

<213> Homo sapiens

<400> 5911

Glu Ile Ile Thr Asp Arg Gln Ser Gly Lys Lys Arg Gly Phe Gly Phe
 1 5 10 15

Val Thr Phe Asp Asp His Asp Pro Val Asp Lys Ile Val Leu Gln Lys
 20 25 30

Tyr His Thr Ile Asn Gly His Asn Ala Glu Val Arg Lys Ala Leu Ser

5196

35 40 45
 Arg Gln Glu Met Gln Glu Val Gln Ser Ser Arg Ser Gly Arg Gly Gly
 50 55 60
 Asn Phe Gly Phe Gly Asp Ser Arg Gly Gly Gly Gly Asn Phe Gly Pro
 65 70 75 80
 Gly Pro Gly Ser Asn Phe Arg Gly Gly Ser Asp Gly Tyr Gly Ser Gly
 85 90 95
 Arg Gly Phe Gly Asp Gly Tyr Asn Gly Tyr Gly Gly Gly Gly Pro Gly Gly
 100 105 110
 Gly Asn Phe Gly Gly Ser Pro Gly Tyr Gly Gly Gly Gly Arg Gly Gly Tyr
 115 120 125
 Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly Gly
 130 135 140
 Gly Tyr Asp Asn Tyr Gly Gly Gly Asn Tyr Gly Ser Gly Asn Tyr Asn
 145 150 155 160
 Asp Phe Gly Asn Tyr Asn Gln Gln Pro Ser Asn Tyr Gly Pro Met Lys
 165 170 175
 Ser Gly Asn Phe Gly Gly Ser Arg Asn Met Gly Gly Pro Tyr Gly Gly
 180 185 190
 Gly Asn Tyr Gly Pro Gly Gly Ser Gly Gly Ser Gly Gly Tyr Gly Gly
 195 200 205
 Arg Ser Arg Tyr
 210

<210> 5912

<211> 385

<212> PRT

<213> Homo sapiens

<400> 5912

His Leu Glu Pro Ala Gln Leu Val Ser Lys Lys His Lys Leu Arg Ser
 1 5 10 15
 Gln Lys Arg Pro Arg Arg Cys Leu Trp Leu His Gln Ser Ser Arg Arg
 20 25 30
 Thr Trp Leu Gly Pro Arg Arg Gly His Pro Leu Cys Arg Cys Pro Pro
 35 40 45

5197

Arg Arg Pro Trp Leu Trp Leu Asp Arg Ser Gln Lys Leu Thr Ser Ser
 50 55 60
 Ala Ser Ser Pro Ser Gln Pro Tyr Ser Val Gln Pro Leu His Leu Pro
 65 70 75 80
 Asp Gly Trp Ala Asp Pro Ala Gly Leu Arg Leu Arg Gly Val Phe Leu
 85 90 95
 Cys Leu Pro Arg Val Leu Gln Arg Arg Cys Pro Pro Gly Val Pro Asn
 100 105 110
 Thr Ser Arg Ala Val Gln Glu Ala Ser Gly Arg Gly Arg Ala Ala Arg
 115 120 125
 His Arg Asn Ser Leu Gln Arg Pro Cys Ser Arg Ser Gln Ser Pro Gly
 130 135 140
 Gly Glu Glu Gly Met Ala Arg Ala Tyr Ala Val Val Cys Asp Cys Lys
 145 150 155 160
 Leu Phe Leu Tyr Asp Leu Pro Glu Gly Lys Ser Thr Gln Pro Gly Val
 165 170 175
 Ile Ala Ser Gln Val Leu Asp Leu Arg Asp Asp Glu Phe Ser Val Ser
 180 185 190
 Ser Val Leu Ala Ser Asp Val Ile His Ala Thr Arg Arg Asp Ile Pro
 195 200 205
 Cys Ile Phe Arg Val Thr Ala Ser Leu Leu Gly Ala Pro Ser Lys Thr
 210 215 220
 Ser Ser Leu Leu Ile Leu Thr Glu Asn Glu Asn Glu Lys Arg Lys Trp
 225 230 235 240
 Val Gly Ile Leu Glu Gly Leu Gln Ser Ile Leu His Lys Asn Arg Leu
 245 250 255
 Arg Asn Gln Val Val His Val Pro Leu Glu Ala Tyr Asp Ser Ser Leu
 260 265 270
 Pro Leu Ile Lys Ala Ile Leu Thr Ala Ala Ile Val Asp Ala Asp Arg
 275 280 285
 Ile Ala Val Gly Leu Glu Glu Gly Leu Tyr Val Ile Glu Val Thr Arg
 290 295 300
 Asp Val Ile Val Arg Ala Ala Asp Cys Lys Lys Val His Gln Ile Glu
 305 310 315 320

5198

Leu Ala Pro Arg Glu Lys Ile Val Ile Leu Leu Cys Gly Arg Asn His
 325 330 335

His Val His Leu Tyr Pro Trp Ser Ser Leu Asp Gly Ala Glu Gly Ser
 340 345 350

Phe Asp Ile Lys Leu Pro Glu Thr Lys Gly Cys Gln Leu Met Ala Thr
 355 360 365

Ala Thr Leu Lys Arg Asn Ser Gly Thr Cys Leu Phe Val Ala Val Lys
 370 375 380

Arg
 385

<210> 5913

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5913

Thr Gln Ser Lys Trp Arg Leu Glu Val Gln Cys Gly Lys Glu Lys Gln
 1 5 10 15

Val Phe Ile Glu Ser Thr Asn Ser Thr Pro Phe Ile Asp Thr Glu Asn
 20 25 30

Val Glu Asn Pro Lys Phe Asp
 35

<210> 5914

<211> 321

<212> PRT

<213> Homo sapiens

<400> 5914

Glu Arg Thr Leu Gly Gln Pro Gly Phe Leu Gly Cys Pro Arg Gln Pro
 1 5 10 15

His Thr Ala Met His Tyr Pro Thr Ala Leu Leu Phe Leu Ile Leu Ala
 20 25 30

Asn Gly Ala Gln Ala Phe Arg Ile Cys Ala Phe Asn Ala Gln Arg Leu
 35 40 45

Thr Leu Ala Lys Val Ala Arg Glu Gln Val Met Asp Thr Leu Val Arg

5199

50	55	60
Ile Leu Ala Arg Cys Asp	Ile Met Val Leu Gln Glu Val Val Asp Ser	
65	70	75 80
Ser Gly Ser Ala Ile Pro Leu Leu Leu Arg Glu Leu Asn Arg Phe Asp		
	85	90 95
Gly Ser Gly Pro Tyr Ser Thr Leu Ser Ser Pro Gln Leu Gly Arg Ser		
	100	105 110
Thr Tyr Met Glu Thr Tyr Val Tyr Phe Tyr Arg Ser His Lys Thr Gln		
	115	120 125
Val Leu Ser Ser Tyr Val Tyr Asn Asp Glu Asp Asp Val Phe Ala Arg		
	130	135 140
Glu Pro Phe Val Ala Gln Phe Ser Leu Pro Ser Asn Val Leu Pro Ser		
	145	150 155 160
Leu Val Leu Val Pro Leu His Thr Thr Pro Lys Ala Val Glu Lys Glu		
	165	170 175
Leu Asn Ala Leu Tyr Asp Val Phe Leu Glu Val Ser Gln His Trp Gln		
	180	185 190
Ser Lys Asp Val Ile Leu Leu Gly Asp Phe Asn Ala Asp Cys Ala Ser		
	195	200 205
Leu Thr Lys Lys Arg Leu Asp Lys Leu Glu Leu Arg Thr Glu Pro Gly		
	210	215 220
Phe His Trp Val Ile Ala Asp Gly Glu Asp Thr Thr Val Arg Ala Ser		
	225	230 235 240
Thr His Cys Thr Tyr Asp Arg Val Val Leu His Gly Glu Arg Cys Arg		
	245	250 255
Ser Leu Leu His Thr Ala Ala Ala Phe Asp Phe Pro Thr Ser Phe Gln		
	260	265 270
Leu Thr Glu Glu Glu Ala Leu Asn Ile Ser Asp His Tyr Pro Val Glu		
	275	280 285
Val Glu Leu Lys Leu Ser Gln Ala His Ser Val Gln Pro Leu Ser Leu		
	290	295 300
Thr Val Leu Leu Leu Leu Ser Leu Leu Ser Pro Gln Leu Cys Pro Ala		
	305	310 315 320
Ala		

5200

<210> 5915

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5915

Phe	Ser	Cys	Leu	Ser	Leu	Pro	Ser	Ser	Trp	Glu	Asn	Arg	Pro	Val	Pro
1				5					10					15	
Pro	His	Arg	Ser	Ser	Phe	Cys	Ile	Phe	Ser	Arg	Asp	Gly	Val	Ser	Pro
			20					25					30		
Cys	Trp	Pro	Gly	Trp	Ser										
			35												

<210> 5916

<211> 359

<212> PRT

<213> Homo sapiens

<400> 5916

Ile	Asn	Leu	Glu	Glu	Val	Gly	Thr	Ile	Cys	Leu	Gly	Phe	Phe	Lys	Ser
1				5					10					15	
Ser	Thr	Asn	Leu	Ser	Glu	Phe	Val	Met	Arg	Lys	Ile	Gly	Asp	Leu	Ala
			20					25					30		
Cys	Ala	Asn	Ile	Gln	His	Leu	Ser	Ser	Arg	Ser	Leu	Val	Asn	Ile	Val
		35					40					45			
Lys	Met	Phe	Arg	Phe	Thr	His	Val	Asp	His	Ile	Asn	Phe	Met	Lys	Gln
	50					55					60				
Ile	Gly	Glu	Ile	Ala	Pro	Gln	Arg	Ile	Pro	Ser	Leu	Gly	Val	Gln	Gly
65					70					75				80	
Val	Met	His	Leu	Thr	Leu	Tyr	Cys	Ser	Ala	Leu	Arg	Phe	Leu	Asn	Glu
				85					90					95	
Gly	Val	Met	Asn	Ala	Val	Ala	Ala	Ser	Leu	Pro	Pro	Arg	Val	Ala	His
			100					105					110		
Cys	Arg	Ser	Lys	Asp	Val	Ala	Lys	Ile	Leu	Trp	Ser	Phe	Gly	Thr	Leu
		115					120					125			

5201

Asn Tyr Lys Pro Pro Asn Ala Glu Glu Phe Tyr Ser Ser Leu Ile Ser
 130 135 140
 Glu Ile His Arg Lys Met Pro Glu Phe Asn Gln Tyr Pro Glu His Leu
 145 150 155 160
 Pro Thr Cys Leu Leu Gly Leu Ala Phe Leu Glu Tyr Phe Pro Val Glu
 165 170 175
 Leu Ile Asp Phe Ala Leu Ser Pro Gly Phe Val Arg Leu Ala Gln Glu
 180 185 190
 Arg Thr Lys Phe Asp Leu Leu Lys Glu Leu Tyr Thr Leu Asp Gly Thr
 195 200 205
 Val Gly Ile Glu Cys Pro Asp Tyr Arg Gly Asn Arg Leu Ser Thr His
 210 215 220
 Leu Gln Gln Glu Gly Ser Glu Leu Leu Trp Tyr Leu Ala Glu Lys Asp
 225 230 235 240
 Met Asn Ser Lys Pro Glu Phe Leu Glu Thr Val Phe Leu Leu Glu Thr
 245 250 255
 Met Leu Gly Gly Pro Gln Tyr Val Lys His His Met Ile Leu Pro His
 260 265 270
 Thr Arg Ser Ser Asp Leu Glu Val Gln Leu Asp Val Asn Leu Lys Pro
 275 280 285
 Leu Pro Phe Asn Arg Glu Ala Thr Pro Ala Glu Asn Val Ala Lys Leu
 290 295 300
 Arg Leu Glu His Val Gly Val Ser Leu Thr Asp Asp Leu Met Asn Lys
 305 310 315 320
 Leu Leu Lys Gly Lys Ala Arg Gly His Phe Gln Gly Lys Thr Glu Ser
 325 330 335
 Glu Pro Gly Gln Gln Pro Trp Ser Trp Arg Ile Arg Gln Leu Tyr Leu
 340 345 350
 Trp Gly Ala Ser Phe Ala Met
 355

<210> 5917

<211> 82

<212> PRT

<213> Homo sapiens

5202

<400> 5917

Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile
 1 5 10 15

Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser
 20 25 30

Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr
 35 40 45

Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His
 50 55 60

Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile
 65 70 75 80

Phe Trp

<210> 5918

<211> 111

<212> PRT

<213> Homo sapiens

<400> 5918

Ala Phe Leu Pro Ala Gly Pro Ser Gly Phe Pro Ser Gly Pro Gly Cys
 1 5 10 15

Val Trp Lys Cys His Leu Gly Ala Arg Ala Trp Met Ser Ala Ser Gly
 20 25 30

Leu Cys Leu Ala Pro Tyr Pro Thr Val Ala Glu Leu Val Tyr Lys Leu
 35 40 45

Gln Asp Ser Leu Leu Tyr Ser Ser Ser Ser Ser Pro Val Ala Glu Arg
 50 55 60

Arg Asn Leu Ser Gln Ser Cys Glu Leu Tyr Cys Leu Gly Leu Gly Glu
 65 70 75 80

Gly Trp His Lys His Ser Leu Ser His Pro Gly Trp Cys Leu Thr Asn
 85 90 95

Leu Cys Ala Pro Gln Val His Trp Leu Gln Gly Gln Arg Ser Thr
 100 105 110

5203

<210> 5919

<211> 441

<212> PRT

<213> Homo sapiens

<400> 5919

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Arg Arg Arg Arg Ala Cys Arg Ser Ala Glu Gly Thr Gly Leu Arg Ser
 1             5             10             15

Leu Leu Leu Pro Pro Arg Leu Gln Leu Pro Ala Gly Pro Phe Ser Arg
      20             25             30

Cys Arg Trp Asp Pro Val Ser Ser Pro Arg Pro Ser Thr Met Pro Pro
      35             40             45

Lys Lys Gly Gly Asp Gly Ile Lys Pro Pro Pro Ile Ile Gly Arg Phe
 50             55             60

Gly Thr Ser Leu Lys Ile Gly Ile Val Gly Leu Pro Asn Val Gly Lys
 65             70             75             80

Ser Thr Phe Phe Asn Val Leu Thr Asn Ser Gln Ala Ser Ala Glu Asn
      85             90             95

Phe Pro Phe Cys Thr Ile Asp Pro Asn Glu Ser Arg Val Pro Val Pro
      100            105            110

Asp Glu Arg Phe Asp Phe Leu Cys Gln Tyr His Lys Pro Ala Ser Lys
      115            120            125

Ile Pro Ala Phe Leu Asn Val Val Asp Ile Ala Gly Leu Val Lys Gly
      130            135            140

Ala His Asn Gly Gln Gly Leu Gly Asn Ala Phe Leu Ser His Ile Ser
      145            150            155            160

Ala Cys Asp Gly Ile Phe His Leu Thr Arg Ala Phe Glu Asp Asp Asp
      165            170            175

Ile Thr His Val Glu Gly Ser Val Asp Pro Ile Arg Asp Ile Glu Ile
      180            185            190

Ile His Glu Glu Leu Gln Leu Lys Asp Glu Glu Met Ile Gly Pro Ile
      195            200            205

Ile Asp Lys Leu Glu Lys Val Ala Val Arg Gly Gly Asp Lys Lys Leu
      210            215            220

Lys Pro Glu Tyr Asp Ile Met Cys Lys Val Lys Ser Trp Val Ile Asp
      225            230            235            240

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5204

Gln Lys Lys Pro Val Arg Phe Tyr His Asp Trp Asn Asp Lys Glu Ile
 245 250 255

Glu Val Leu Asn Lys His Leu Phe Leu Thr Ser Lys Pro Met Val Tyr
 260 265 270

Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg Lys Lys Asn Lys Trp
 275 280 285

Leu Ile Lys Ile Lys Glu Trp Val Asp Lys Tyr Asp Pro Gly Ala Leu
 290 295 300

Val Ile Pro Phe Ser Gly Ala Leu Glu Leu Lys Leu Gln Glu Leu Ser
 305 310 315 320

Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala Asn Met Thr Gln Ser Ala
 325 330 335

Leu Pro Lys Ile Ile Lys Ala Gly Phe Ala Ala Leu Gln Leu Glu Tyr
 340 345 350

Phe Phe Thr Ala Gly Pro Asp Glu Val Arg Ala Trp Thr Ile Arg Lys
 355 360 365

Gly Thr Lys Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu
 370 375 380

Lys Gly Phe Ile Met Ala Glu Val Met Lys Tyr Glu Asp Phe Lys Glu
 385 390 395 400

Glu Gly Ser Glu Asn Ala Val Lys Ala Ala Gly Lys Tyr Arg Gln Gln
 405 410 415

Gly Arg Asn Tyr Ile Val Glu Asp Gly Asp Ile Ile Phe Phe Lys Phe
 420 425 430

Asn Thr Pro Gln Gln Pro Lys Lys Lys
 435 440

<210> 5920

<211> 275

<212> PRT

<213> Homo sapiens

<400> 5920

Gly Val Ala Leu Phe Lys Ser Ala Ala Gly Asp Gln Pro Thr Ala Ala
 1 5 10 15

Cys Ile Cys Ile Gln Arg Gln Val Pro Pro Val Pro Ala Ala Arg Ala

5205

20	25	30
Pro Gln Ser Arg Thr Arg Ser Ala Gln Ala Lys Leu Ala Leu Thr Met		
35	40	45
Pro Val Lys Gly Gly Thr Lys Cys Ile Lys Tyr Leu Leu Phe Gly Phe		
50	55	60
Asn Phe Ile Phe Trp Leu Ala Gly Ile Ala Val Leu Ala Ile Gly Leu		
65	70	75 80
Trp Leu Arg Phe Asp Ser Gln Thr Lys Ser Ile Phe Glu Gln Glu Thr		
85	90	95
Asn Asn Asn Asn Ser Ser Phe Tyr Thr Gly Val Tyr Ile Leu Ile Gly		
100	105	110
Ala Gly Ala Leu Met Met Leu Val Gly Phe Leu Gly Cys Cys Gly Ala		
115	120	125
Val Gln Glu Ser Gln Cys Met Leu Gly Leu Phe Phe Gly Phe Leu Leu		
130	135	140
Val Ile Phe Ala Ile Glu Ile Ala Ala Ala Ile Trp Gly Tyr Ser His		
145	150	155 160
Lys Asp Glu Val Ile Lys Glu Val Gln Glu Phe Tyr Lys Asp Thr Tyr		
165	170	175
Asn Lys Leu Lys Thr Lys Asp Glu Pro Gln Arg Glu Thr Leu Lys Ala		
180	185	190
Ile His Tyr Ala Leu Asn Cys Cys Gly Leu Ala Gly Gly Val Glu Gln		
195	200	205
Phe Ile Ser Asp Ile Cys Pro Lys Lys Asp Val Leu Glu Thr Phe Thr		
210	215	220
Val Lys Ser Cys Pro Asp Ala Ile Lys Glu Val Phe Asp Asn Lys Phe		
225	230	235 240
His Ile Ile Gly Ala Val Gly Ile Gly Ile Ala Val Val Met Ile Phe		
245	250	255
Gly Met Ile Phe Ser Met Ile Leu Cys Cys Ala Ile Arg Arg Asn Arg		
260	265	270
Glu Met Val		
275		

5206

<210> 5921

<211> 115

<212> PRT

<213> Homo sapiens

<400> 5921

Val Gly Cys Arg Pro Leu Ser Ser Cys His Leu Leu Ala Val Ala Arg
 1 5 10 15

Ser Tyr Phe Ser Leu Ser Gly Val Ile Cys Ile Trp Arg Phe His Cys
 20 25 30

Cys Phe Ser Leu Ser Tyr Leu Glu Trp Asn Pro Glu Ser Cys Pro Phe
 35 40 45

Pro Pro Thr Cys Ser Tyr Leu Lys Ala Pro Glu Thr Tyr Trp Val Pro
 50 55 60

Asp Ser Cys Phe Val Cys Ile Arg Arg Val Val Ala Cys His Leu Ala
 65 70 75 80

Cys Phe Leu Asn Asn Pro Thr Ser Cys Pro Pro Cys Thr Tyr Ile Ala
 85 90 95

Thr Ala Leu Ile Trp Ala Phe Phe Phe Leu Gly Gln Cys Leu Cys Pro
 100 105 110

Asn Ser Glu
 115

<210> 5922

<211> 291

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5922

His Gly Leu Cys Arg Leu Phe Asn Ser Pro Leu Lys Pro Leu Ala Asp
 1 5 10 15

5207

Leu Asp Pro Val Val Val Thr Phe Trp Tyr Arg Ala Pro Glu Leu Leu
 20 25 30

Leu Gly Ala Arg His Tyr Thr Lys Ala Ile Asp Ile Trp Ala Ile Gly
 35 40 45

Cys Ile Phe Ala Glu Leu Leu Thr Ser Glu Pro Xaa Phe His Cys Arg
 50 55 60

Gln Glu Asp Ile Lys Thr Ser Asn Pro Tyr His His Asp Gln Leu Asp
 65 70 75 80

Arg Ile Phe Asn Val Met Gly Phe Pro Ala Asp Lys Asp Trp Glu Asp
 85 90 95

Ile Lys Lys Met Pro Glu His Ser Thr Leu Met Lys Asp Phe Arg Arg
 100 105 110

Asn Thr Tyr Thr Asn Cys Ser Leu Ile Lys Tyr Met Glu Lys His Lys
 115 120 125

Val Lys Pro Asp Ser Lys Ala Phe His Leu Leu Gln Lys Leu Leu Thr
 130 135 140

Met Asp Pro Ile Lys Arg Ile Thr Ser Glu Gln Ala Met Gln Asp Pro
 145 150 155 160

Tyr Phe Leu Glu Asp Pro Leu Pro Thr Ser Asp Val Phe Ala Gly Cys
 165 170 175

Gln Ile Pro Tyr Pro Lys Arg Glu Phe Leu Thr Glu Glu Glu Pro Asp
 180 185 190

Asp Lys Gly Asp Lys Lys Asn Gln Gln Gln Gln Gly Asn Asn His
 195 200 205

Thr Asn Gly Thr Gly His Pro Gly Xaa Gln Asp Ser Ser His Thr Gln
 210 215 220

Gly Pro Pro Leu Lys Lys Val Arg Val Val Pro Pro Thr Thr Thr Ser
 225 230 235 240

Gly Gly Leu Ile Met Thr Ser Asp Tyr Gln Arg Ser Asn Pro His Ala
 245 250 255

Ala Tyr Pro Asn Pro Gly Pro Ser Thr Ser Gln Pro Gln Ser Ser Met
 260 265 270

Gly Tyr Ser Ala Thr Ser Gln Gln Pro Pro Gln Tyr Ser His Gln Thr
 275 280 285

5208

His Arg Tyr
290

<210> 5923
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5923
Arg Pro Pro Ser Arg Trp Ser Trp Trp Gln Gly Lys Pro Thr Gly Gly
1 5 10 15
Val Cys Val Ala Ala Ala Arg Ser Ser Pro Ser Val Thr Ala Pro Thr
20 25 30
Ser Ser Asn Ala Leu Ala Tyr Leu His Ser Ser Ser Arg Pro Lys Arg
35 40 45
Pro Ala Trp Trp His Ser Val Pro Ala Arg Pro Leu Arg Gly Pro Arg
50 55 60
Thr Ala Met Ala Pro Thr Gly Val Ser Ala Cys Arg Arg Gln Lys Trp
65 70 75 80
Ala Pro His Ser Glu Gly Ala Ala Ala Val Gln Pro Gln Val Ala Leu
85 90 95
Ala Pro Gly Leu
100

<210> 5924
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5209

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5924

Tyr	Arg	Pro	Gly	Pro	Leu	Thr	Ser	Gln	Gly	Met	Asn	Xaa	Ser	Arg	Gln
1				5					10					15	

Xaa	Pro	Xaa	Leu	Asn	Leu	Leu	Pro	Ser	Ser	Ala	His	Phe	Arg	Pro	Ser
			20					25					30		

Thr	Tyr	Lys	Lys	Ser	Ser	Gly	Pro	Leu	Lys	Ala	Xaa	Lys	Leu	Ile	Ile
		35					40					45			

His	Trp	Asn	Cys	Trp	Glu	Asp	Ser	Leu	Ser	Gly	Ile	Ala	Met	Asn	Val
	50					55					60				

Pro	Ala	Ser	Arg	Gly	Ser	Asn	Leu	Asn	Ser	Ser	Gly	Ala	Asn	Arg	Thr
65					70					75				80	

Ser	Leu	Ser	Gly	Gly	Thr	Gly	Ser	Gly	Thr	Gln	Gly	Ala	Thr	Lys	Pro
			85						90					95	

Leu	Ser	Thr	Pro	His	Arg	Pro	Ser	Thr	Ala	Ser	Gly	Ser	Ser	Val	Val
		100					105						110		

Thr	Ala	Ser	Val	Gln	Lys	Leu	Ile	His	Thr	Glu	Asp	Pro	Phe	Asn	Asp
	115						120					125			

Glu	His	Gln	Glu	Arg	Gln	Glu	Val	Glu	Met	Leu	Ala	Lys	Lys	Phe	Glu
	130					135					140				

Met	Lys	Tyr	Tyr	Asp	Glu	Leu	Val	Pro	Ala	Ser	Leu	Thr	Thr	Lys	Tyr
145					150					155				160	

Gly	Gly	Phe	Tyr	Ile	Asn	Thr	Gly	Thr	Leu	Gln	Phe	Arg	Gln	Ala	Ser
				165					170					175	

Asp	Thr	Glu	Glu	Asp	Asp	Ile	Thr	Asp	Asn	Gln	Lys	His	Lys	Pro	Pro
		180						185					190		

Lys	Val	Pro	Lys	Ile	Lys	Glu	Asp	Asp	Ile	Glu	Met	Lys	Lys	Arg	Lys
		195					200					205			

Arg	Lys	Glu	Glu	Gly	Glu	Lys	Glu	Lys	Lys	Pro	Arg	Lys	Lys	Val	Pro
	210					215					220				

5210

Lys Gln Leu Gly Val Val Ala Leu Asn Ser His Lys Ser Glu Lys Lys
 225 230 235 240

Lys

<210> 5925

<211> 330

<212> PRT

<213> Homo sapiens

<400> 5925

Ala Gly Ser Arg Cys Pro Ala Trp Arg Ala Arg Ser Ala Cys Arg Trp
 1 5 10 15

Pro Leu Ala Arg Cys Ser Ser Pro Gly Cys Asp Ser Gly Phe Gly Lys
 20 25 30

Glu Thr Ala Lys Lys Leu Asp Ser Met Gly Phe Thr Val Leu Ala Thr
 35 40 45

Val Leu Glu Leu Asn Ser Pro Gly Ala Ile Glu Leu Arg Thr Cys Cys
 50 55 60

Ser Pro Arg Leu Arg Leu Leu Gln Met Asp Leu Thr Lys Pro Gly Asp
 65 70 75 80

Ile Ser Arg Val Leu Glu Phe Thr Lys Ala His Thr Thr Ser Thr Gly
 85 90 95

Leu Trp Gly Leu Val Asn Asn Ala Gly His Asn Glu Val Val Ala Asp
 100 105 110

Ala Glu Leu Ser Pro Val Ala Thr Phe Arg Ser Cys Met Glu Val Asn
 115 120 125

Phe Phe Gly Ala Leu Glu Leu Thr Lys Gly Leu Leu Pro Leu Leu Arg
 130 135 140

Ser Ser Arg Gly Arg Ile Val Thr Val Gly Ser Pro Ala Gly Asp Met
 145 150 155 160

Pro Tyr Pro Cys Leu Gly Ala Tyr Gly Thr Ser Lys Ala Ala Val Ala
 165 170 175

Leu Leu Met Asp Thr Phe Ser Cys Glu Leu Leu Pro Trp Gly Val Lys
 180 185 190

5211

Val Ser Ile Ile Gln Pro Gly Cys Phe Lys Thr Glu Ser Val Arg Asn
 195 200 205

Val Gly Gln Trp Glu Lys Arg Lys Gln Leu Leu Leu Ala Asn Leu Pro
 210 215 220

Gln Glu Leu Leu Gln Ala Tyr Gly Lys Asp Tyr Ile Glu His Leu His
 225 230 235 240

Gly Gln Phe Leu His Ser Leu Arg Leu Ala Met Ser Asp Leu Thr Pro
 245 250 255

Val Val Asp Ala Ile Thr Asp Ala Leu Leu Ala Ala Arg Pro Arg Arg
 260 265 270

Arg Tyr Tyr Pro Gly Gln Gly Leu Gly Leu Met Tyr Phe Ile His Tyr
 275 280 285

Tyr Leu Pro Glu Gly Leu Arg Ala Ala Ser Cys Arg Pro Ser Ser Ser
 290 295 300

Val Thr Val Cys Leu Glu His Cys Ser Leu Ala Ser Leu Ala Leu Pro
 305 310 315 320

His His Arg Thr Gln Pro Arg Thr Gln Thr
 325 330

<210> 5926

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5926

Cys Xaa His Met Val Ile Met Cys Asp Trp Ile Met Lys Ile Ile Val

5212

1 5 10 15
 Val Cys Val Gly Thr Arg Asp Cys Pro Val Ser Arg Thr Pro Ala His
 20 25 30
 Tyr Leu Ser Ile Leu Gln Pro Phe Ile Trp Lys Leu Pro Thr Ser Leu
 35 40 45
 Cys Cys Val Cys Leu His Met Xaa Gly Phe Ala Val Leu Ala Leu Thr
 50 55 60
 Ala His Arg Glu Cys Arg Pro His Pro Asn Pro His Gln Leu Pro Leu
 65 70 75 80
 Glu Xaa Gln Asn Leu Gly Trp Gly
 85

<210> 5927

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5927

Arg Tyr His Ile Leu Ser Gly Ile Ser Pro Pro Ala Leu Trp Leu Leu
 1 5 10 15
 Val Glu Arg Leu Phe Gly Tyr Gly Leu Ala Val Glu Lys Ile Gln Val
 20 25 30
 Ile Leu Leu Asn Asp Phe Thr Phe
 35 40

<210> 5928

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5928

Thr Phe Pro Asn Gly Ala Phe Ala Leu Ile Ser Lys Leu Thr Ala Arg
 1 5 10 15
 Asp Ala Phe Leu Tyr Phe Asp Cys Phe Thr Val Glu Gly Gln Ile Pro

5213

	20		25		30										
Arg	Leu	Ser	Lys	Val	Asn	Leu	Phe	Thr	Leu	Leu	Ser	Leu	Trp	Met	Glu
	35		40		45										
Leu	Phe	Pro	Ala	Glu	Ala	Gln	Arg	Gln	Lys	Ser	Gln	Lys	Asn	Glu	Glu
	50		55		60										
Gly	Lys	His	Gly	Pro	Leu	Gly	Asp	Asn	Glu	Glu	Arg	Thr	Arg	Val	Ser
65			70		75									80	
Thr	Asp	Lys	Arg	Gln	Lys	Thr	Met	Phe	Cys	Leu	Phe	Glu	Asn	Asp	Xaa
			85		90									95	
Lys	Cys	Lys	Ala	Leu	Thr	Val	Met	Ile	Arg	Ser	Met	Ser	Arg	Ser	Val
	100		105		110										

Pro

<210> 5929
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 5929
 Cys Ile Gly Pro Lys Cys Lys Leu His Trp Ser Asp Leu Glu Ala Phe
 1 5 10 15
 Met Leu Thr Ser Phe Gly Lys Val Lys Asn Asn Lys Ile Ile Leu Asp
 20 25 30
 Phe Ile Leu Tyr Ile Lys Ile Tyr Leu Leu Arg Lys Gln Ser Val Tyr
 35 40 45
 Tyr Leu Leu Val
 50

<210> 5930
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 5930
 Ala Glu Gln Glu Glu His Gly Lys Arg Lys Lys Lys Gly Lys Gly Leu
 1 5 10 15

5214

Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys Ile
 20 25 30

His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile
 35 40 45

Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro
 50 55 60

Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr Thr Ile Leu Ala Val
 65 70 75 80

Val Ala Val Val Leu Asp Leu Met Ser
 85

<210> 5931

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5931

Glu Ser Pro Thr Ile Val Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro
 1 5 10 15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro Gly Leu Leu
 20 25 30

Glu Pro Trp Thr Ser Lys Gly Val Glu Ile Ala Ala Ala Pro His Tyr
 35 40 45

Lys His Leu Gly Leu Glu Ala Thr Glu Tyr His Phe Leu His Ile Leu
 50 55 60

Leu Xaa Lys Ala Gly Gly Glu Pro Ala Leu Thr Lys Arg Val Gly Asp
 65 70 75 80

Gln Thr Phe Thr Ser
 85

<210> 5932

<211> 155

<212> PRT

5215

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5932

Glu Trp Thr Glu Gly Gln Thr Val Gln Gly Arg Glu Asp His Trp Gly
 1 5 10 15

Arg Glu Val Thr Xaa Arg Glu Val Ser Val Gly Arg Gly Glu Thr Lys
 20 25 30

Glu Lys Ile Glu Glu Gln Lys Ala Leu Ala Leu Gln Leu Gln Asn Gln
 35 40 45

Arg Leu Gln Glu Arg Glu His Ser Val His Asp Ser Val Glu Leu His
 50 55 60

Leu Arg Val Pro Leu Glu Lys Glu Ile Pro Val Thr Val Val Gln Glu
 65 70 75 80

Thr Gln Lys Lys Gly His Lys Leu Thr Asp Ser Glu Asp Glu Phe Pro
 85 90 95

Glu Ile Thr Glu Glu Met Glu Lys Glu Ile Lys Asn Val Phe Arg Asn
 100 105 110

Gly Asn Gln Asp Glu Val Leu Ser Glu Ala Phe Arg Leu Thr Ile Thr
 115 120 125

Arg Lys Asp Ile Gln Thr Leu Asn His Leu Asn Trp Leu Asn Asp Glu
 130 135 140

Ile Ile Asn Phe Tyr Met Asn Met Leu Met Gly
 145 150 155

<210> 5933

<211> 150

<212> PRT

<213> Homo sapiens

<400> 5933

Gly Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
 1 5 10 15

Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
 20 25 30

5216

His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
 35 40 45
 Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys
 50 55 60
 Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
 65 70 75 80
 Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
 85 90 95
 Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
 100 105 110
 Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
 115 120 125
 Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
 130 135 140
 Leu Leu Lys Val Ala Ile
 145 150

<210> 5934

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5934

His Ile Arg Thr Gly Glu Arg Glu Arg Arg Gly Leu Phe Phe Cys Ser
 1 5 10 15
 Ile Phe Gln Ser His Ile Arg Val Ile Leu Asn Cys Asn Lys Asp Gln
 20 25 30
 Leu Leu Lys Ile Ser Leu Leu Lys Ile Gln Asn Asp Leu Ser Ile Leu
 35 40 45
 Lys Ile Ile Tyr Leu Pro Cys Ser Cys Leu Leu Thr Leu Ala Ile Ser
 50 55 60
 Trp Arg Gly
 65

<210> 5935

5217

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5935

```

Ile Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Gly Pro Glu
 1              5              10              15

Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Val Arg Leu Ser Ala Ile
              20              25              30

Asp Gly Ala Leu Leu Trp Cys Leu Leu Glu Val Tyr Cys His Tyr Arg
              35              40              45

Glu Pro Cys Leu Leu Ala Ser Leu Asp Leu Tyr Ser Lys Gln Ser Val
              50              55              60

Ser Asp Asp Lys Phe Cys Arg Arg Val Tyr Ser Glu Pro Leu Thr Ser
 65              70              75              80

Cys Lys Gly Lys Met Gly Gly Leu Pro Glu Ile Pro Leu Lys Gln Gly
              85              90              95

Gly Leu Trp Gly Gly Arg Leu Gly Tyr Leu Ser
              100              105

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<210> 5936

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5936

```

Arg Ala Leu Trp Phe Phe Ser Ser Arg Gly His Asp Ala Ser Gln Ile
 1              5              10              15

Thr Leu Ala Leu Xaa Thr Ala Ala Ser Tyr Pro Arg Ala Cys Gln Ala
              20              25              30

Leu Gly Ala Met Leu Ser Lys Gly Ala Leu Asn Pro Ala Asp Ile Thr

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5218

35 40 45
 Val Leu Phe Lys Met Phe Thr Ser Met Asp Pro Pro Pro Val Glu Leu
 50 55 60
 Glu Val Ala Ser Gln Glu Ser Pro Met Ser Ala Gly Lys Val Thr Leu
 65 70 75 80
 Glu Ser Leu Cys Leu Ser Asp Cys Leu Lys Ala Val Asn Ala Asn Pro
 85 90 95
 Ser Leu Ser Trp Ser Phe Leu Ser His Thr Leu Cys Leu Glu Pro Val
 100 105 110
 Gly Pro Leu Leu Cys Arg Asp Thr Leu Arg Gly Gly Gly
 115 120 125

<210> 5937

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5937

Arg His Cys Leu Pro Pro Thr Pro Pro Gln Gly Cys Gly Leu Pro Ala
 1 5 10 15
 Leu Gly Gly Gln Ala Met Leu Thr Leu His Gly Gly His Ser Ser Arg
 20 25 30
 Glu Ala Xaa Lys Val Val Asn Ser Ile Leu Ala Phe Arg Glu Lys Glu
 35 40 45
 Trp Gln Arg Leu Gln Ser Asn Pro His Leu Lys Glu Gly Ser Val Thr
 50 55 60
 Ser Val Asn Leu Thr Lys Leu Glu Gly Gly Val Ala Tyr Asn Val Ile
 65 70 75 80
 Pro Ala Thr Met Ser Ala Ser Phe Asp Phe Arg Val Ala Pro Asp Val
 85 90 95
 Asp Phe Lys Ala Phe Glu Glu Gln Leu Gln Ser Trp Cys Gln Ala Ala
 100 105 110

5219

Gly Glu Gly Val Thr Leu Glu Phe Ala Gln Lys Trp Met His Pro Gln
 115 120 125
 Val Thr Pro Thr Asp Asp Ser Asn Pro Trp Trp Ala Ala Phe Ser Arg
 130 135 140
 Val Cys Lys Asp Met Asn Leu Thr Leu Glu Pro Glu Ile Met Pro Ala
 145 150 155 160
 Ala Thr Asp Asn Arg Tyr Ile Arg Ala Val Gly Val Pro Ala Leu Gly
 165 170 175
 Phe Ser Pro Met Asn Arg Thr Pro Val Leu Leu His Asp His Asp Glu
 180 185 190
 Arg Leu His Glu Ala Val Phe Leu Arg Gly Val Asp Ile Tyr Thr Arg
 195 200 205
 Leu Leu Pro Ala Leu Ala Ser Val Pro Ala Leu Pro Ser Asp Ser
 210 215 220

<210> 5938

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5938

Ala Leu Cys Pro Pro Arg Gly Thr Ala Ser Gly Pro Arg His Thr Leu
 1 5 10 15
 Trp Leu Asn Gln Gly Leu Gln Gly Pro Cys Gly Pro Ala Gln Ala Leu
 20 25 30
 Met Gly Arg His Val Arg Ser Trp Arg Thr Gln Ala Pro Phe Leu Ser
 35 40 45
 Gly Val Val Phe Phe Leu Cys Pro Gly Ala Ser Pro Ser Ser Asn Gly
 50 55 60
 Pro Phe Ala Arg Phe Gly Val Pro Leu Ala Gly Pro Ile Arg Thr Leu
 65 70 75 80
 Arg Ser Asn Gln Gly Arg
 85

<210> 5939

<211> 130

5220

<212> PRT

<213> Homo sapiens

<400> 5939

Arg Arg Asp Ala Cys Pro Ile Ser Arg Glu Pro Pro Thr Arg Pro Trp
 1 5 10 15

Gly Thr Thr Ser Thr Leu Leu Leu Ser Leu Gln Ser Pro Val Pro Arg
 20 25 30

Met Gly His Leu Gln Pro Leu Ala Leu Pro Gln Phe Leu His Leu Pro
 35 40 45

Ala Ala Ala Pro Arg Asn Trp Ala Pro Ser Ser Arg Ala Trp Pro Ala
 50 55 60

Cys Ala Pro Arg Ser Arg Pro Gly Arg Ala Ala Val Phe Leu Lys Tyr
 65 70 75 80

Ala Arg Pro Gln Arg Gln Gly Thr Ser Leu Ala Ala Ala Leu Pro Ala
 85 90 95

Ala Ala Ser Ser Leu Ser Leu Pro Glu Tyr Trp Asp Ser Val Thr Lys
 100 105 110

Lys Ser Thr Thr Lys Asn Lys Thr Leu Pro Val Cys Val Arg Leu Ser
 115 120 125

Ser Gln
 130

<210> 5940

<211> 148

<212> PRT

<213> Homo sapiens

<400> 5940

Gly Arg Thr Cys Lys Lys Glu Leu Thr Arg Lys Asp Thr Ile Met Ala
 1 5 10 15

His Val Thr Glu Phe His Asn Gly His Arg Tyr Phe Tyr Glu Met Asp
 20 25 30

Glu Val Glu Gly Glu Thr Leu Pro Ser Ser Ser Thr Thr Leu Asp Asn
 35 40 45

Leu Thr Ala Asn Lys Pro Ser Ser Ala Ile Thr Val Ile Asp His Ser
 50 55 60

5221

Pro Ala Asn Ser Ser Pro Arg Gly Lys Trp Gln Cys Arg Ile Cys Glu
 65 70 75 80
 Asp Met Phe Asp Ser Gln Glu Tyr Val Lys Gln His Cys Met Ser Leu
 85 90 95
 Ala Ser His Lys Phe His Arg Tyr Ser Cys Ala His Cys Arg Lys Pro
 100 105 110
 Phe His Lys Ile Glu Thr Leu Tyr Arg His Cys Gln Asp Glu His Asp
 115 120 125
 Asn Glu Ile Lys Ile Lys Tyr Phe Cys Gly Leu Cys Asp Leu Ile Phe
 130 135 140
 Asn Val Glu Glu
 145

<210> 5941
 <211> 268
 <212> PRT
 <213> Homo sapiens

<400> 5941
 Pro Gly Arg Pro Thr Arg Pro Arg Thr Arg Gly Ile Asn Lys Leu Ile
 1 5 10 15
 Arg Ile Gly Arg Asn Glu Cys Val Val Val Ile Arg Val Asp Lys Glu
 20 25 30
 Lys Gly Tyr Ile Asp Leu Ser Lys Arg Arg Val Ser Pro Glu Glu Ala
 35 40 45
 Ile Lys Cys Glu Asp Lys Phe Thr Lys Ser Lys Thr Val Tyr Ser Ile
 50 55 60
 Leu Arg His Val Ala Glu Val Leu Glu Tyr Thr Lys Asp Glu Gln Leu
 65 70 75 80
 Glu Ser Leu Phe Gln Arg Thr Ala Trp Val Phe Asp Asp Lys Tyr Lys
 85 90 95
 Arg Pro Gly Tyr Gly Ala Tyr Asp Ala Phe Lys His Ala Val Ser Asp
 100 105 110
 Pro Ser Ile Leu Asp Ser Leu Asp Leu Asn Glu Asp Glu Arg Glu Val
 115 120 125
 Leu Ile Asn Asn Ile Asn Arg Arg Leu Thr Pro Gln Ala Val Lys Ile

5222

130	135	140
Arg Ala Asp Ile Glu Val Ala Cys Tyr Gly Tyr Glu Gly Ile Asp Ala		
145	150	155 160
Val Lys Glu Ala Leu Arg Ala Gly Leu Asn Cys Ser Thr Glu Asn Met		
	165	170 175
Pro Ile Lys Ile Asn Leu Ile Ala Pro Pro Arg Tyr Val Met Thr Thr		
	180	185 190
Thr Thr Leu Glu Arg Thr Glu Gly Leu Ser Val Leu Ser Gln Ala Met		
	195	200 205
Ala Val Ile Lys Glu Lys Ile Glu Glu Lys Arg Gly Val Phe Asn Val		
	210	215 220
Gln Met Glu Pro Lys Val Val Thr Asp Thr Asp Glu Thr Glu Leu Ala		
	225	230 235 240
Arg Gln Met Glu Arg Leu Glu Arg Glu Asn Ala Glu Val Asp Gly Asp		
	245	250 255
Asp Asp Ala Glu Glu Met Glu Ala Lys Ala Glu Asp		
	260	265

<210> 5942

<211> 249

<212> PRT

<213> Homo sapiens

<400> 5942

Ser Arg Glu Ile Asp Ile Ile His Val Ile Lys Asn Met Gly Phe Asn
1 5 10 15
Leu Thr Phe His Leu Ser Tyr Lys Phe Arg Leu Leu Leu Leu Leu Thr
20 25 30
Leu Cys Leu Thr Val Val Gly Trp Ala Thr Ser Asn Tyr Phe Val Gly
35 40 45
Ala Ile Gln Glu Ile Pro Lys Ala Lys Glu Phe Met Ala Asn Phe His
50 55 60
Lys Thr Leu Ile Leu Gly Lys Gly Lys Thr Leu Thr Asn Glu Ala Ser
65 70 75 80
Thr Lys Lys Val Glu Leu Asp Asn Cys Pro Ser Val Ser Pro Tyr Leu
85 90 95

5223

Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu
 100 105 110
 Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln
 115 120 125
 Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn
 130 135 140
 Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu
 145 150 155 160
 Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu
 165 170 175
 Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu
 180 185 190
 Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe His Asp Val Thr
 195 200 205
 Trp Tyr Pro Arg Met Thr Leu Thr Phe Thr Ser Val Arg Ser Ile Pro
 210 215 220
 Ser Ile Trp Trp Leu Ala Gly Thr Ala Leu Gly Thr Gly Tyr Val Thr
 225 230 235 240
 Val Asp Ile Leu Gly Val Leu Leu Pro
 245

<210> 5943

<211> 25

<212> PRT

<213> Homo sapiens

<400> 5943

Gln Ala Pro Arg Arg Pro Ser Pro Ala Ser Leu Cys Gly Pro Arg Arg
 1 5 10 15

Pro Ala Ala Pro Glu Leu Leu Thr Val
 20 25

<210> 5944

<211> 70

<212> PRT

<213> Homo sapiens

5224

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5944

Gln Gly Gly Asp Pro Trp Val Val Arg Gln Leu Trp Val Asn Phe Val
 1 5 10 15

Ser Thr Leu Ser Arg Gly Lys Phe Gly Leu Ser Pro Gly Val His Thr
 20 25 30

Ala Ala Ala Thr Gln Cys Ala Thr Tyr His Phe Phe Leu Xaa Cys Phe
 35 40 45

Val Leu Phe Leu Lys Asp His Phe Ile Leu Lys Arg Lys Ala Asp Pro
 50 55 60

Ser Lys His Glu Ser Ile
 65 70

<210> 5945

<211> 409

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5945

Pro Val Xaa Pro Arg Val Arg Arg Arg Arg Ala Lys Val Gln Gln Gly
 1 5 10 15

Ala Val Gly Arg Ala Arg Arg Phe Pro Ala Arg Val Ser Ala Arg Gly
 20 25 30

Ser Ala Pro Gly Pro Gly Leu Gly Gly Ala Gly Ala Leu Asp Pro Pro
 35 40 45

Ala Val Val Ala Glu Ser Val Ser Ser Leu Thr Ile Ala Asp Ala Phe
 50 55 60

Ile Ala Ala Gly Glu Ser Ser Ala Pro Thr Pro Pro Arg Pro Ala Leu
 65 70 75 80

Pro Arg Arg Phe Ile Cys Ser Phe Pro Asp Cys Ser Ala Asn Tyr Ser

85

90

95

Lys Leu Lys Val Lys Lys Ser Arg Glu Lys Arg Ser Leu Ala Ser His

[illegible]

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<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5946
Lys Arg Met Ala Ala Leu Phe Leu Lys Arg Leu Thr Leu Gln Thr Val
   1                   5               10                   15

Lys Ser Glu Asn Ser Cys Ile Arg Cys Phe Gly Lys His Ile Leu Gln
      20                25              30

Lys Thr Ala Pro Ala Gln Leu Ser Pro Ile Ala Ser Ala Pro Arg Leu
      35                40              45

Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp Thr Gln
   50                   55               60

Asn Glu Gly Lys Lys Thr Lys Lys Xaa Lys Thr Ala Phe Ser Asn Val
   65                   70               75                   80

Xaa Lys Lys Asn
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<210>	5947
<211>	288

5227

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5947

Asp	Val	Ile	Arg	Arg	Thr	Val	Glu	Glu	Arg	Lys	Leu	Lys	Leu	Glu	Met
1				5					10					15	

Glu	Lys	Gln	Glu	Phe	Glu	Gln	Leu	Arg	Gln	Glu	Met	Gly	Glu	Glu	Glu
		20					25						30		

Glu	Glu	Asn	Glu	Thr	Phe	Gly	Leu	Ser	Arg	Glu	Tyr	Glu	Glu	Leu	Ile
		35					40					45			

Lys	Leu	Lys	Arg	Ser	Gly	Ser	Ile	Gln	Ala	Lys	Asn	Leu	Lys	Ser	Lys
	50					55					60				

Phe	Glu	Lys	Ile	Gly	Gln	Leu	Ser	Glu	Lys	Glu	Ile	Gln	Xaa	Xaa	Ile
65					70					75					80

Glu	Glu	Glu	Arg	Ala	Arg	Arg	Arg	Ala	Ile	Asp	Leu	Glu	Ile	Lys	Glu
				85					90					95	

Arg	Glu	Ala	Glu	Asn	Phe	His	Glu	Glu	Asp	Asp	Val	Asp	Val	Arg	Pro
		100						105					110		

Ala	Arg	Lys	Ser	Glu	Ala	Pro	Phe	Thr	His	Lys	Val	Asn	Met	Lys	Ala
		115					120					125			

Arg	Phe	Glu	Gln	Met	Ala	Lys	Ala	Arg	Glu	Glu	Glu	Glu	Gln	Arg	Arg
	130					135					140				

Ile	Glu	Glu	Gln	Lys	Leu	Leu	Arg	Met	Gln	Phe	Glu	Gln	Arg	Glu	Ile
145					150					155					160

Asp	Ala	Ala	Leu	Gln	Lys	Lys	Arg	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Gly
				165					170					175	

Ser	Ile	Met	Asn	Gly	Ser	Thr	Ala	Glu	Asp	Glu	Glu	Gln	Thr	Arg	Ser
			180					185					190		

Gly	Ala	Pro	Trp	Phe	Lys	Lys	Pro	Leu	Lys	Asn	Thr	Ser	Val	Val	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5228

195	200	205
Ser Glu Pro Val Arg Phe Thr Val Lys Val Thr Gly Glu Pro Lys Pro		
210	215	220
Glu Ile Thr Trp Trp Phe Glu Gly Glu Ile Leu Gln Asp Gly Glu Asp		
225	230	235
Tyr Gln Tyr Ile Glu Arg Gly Glu Thr Tyr Cys Leu Tyr Leu Pro Glu		
245	250	255
Thr Phe Pro Glu Asp Gly Gly Glu Tyr Met Cys Lys Ala Val Asn Asn		
260	265	270
Lys Gly Ser Ala Ala Ser Thr Cys Ile Leu Thr Ile Glu Ser Lys Asn		
275	280	285

<210> 5948

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

5229

<400> 5948

Trp His Tyr Gly Met Tyr Gly Gln Ala Xaa Pro Cys Gln Glu Xaa Ile
 1 5 10 15
 Pro Gly Met Val Glu Ser Phe Ile Xaa Asn Gly Trp Phe Ser Xaa Tyr
 20 25 30
 Ala Lys Arg Pro Met Ser Asn Pro Leu Leu Leu Ile Pro Ala Ala Trp
 35 40 45
 Gly Leu Val Pro Val Val Pro Gln Lys Cys Gly Pro Arg Thr Gln Pro
 50 55 60
 Val Xaa Ala Ser Ser Gly Asn Leu Val Lys Lys Cys Lys Leu Leu Gly
 65 70 75 80
 Pro Thr Leu Asn Leu Leu Asn His Lys Leu Cys Phe Asn Lys Gln Pro
 85 90 95
 Ala Leu

<210> 5949

<211> 138

<212> PRT

<213> Homo sapiens

<400> 5949

Val Pro Asp Phe Gln Gly Gln Gln Phe Ile Leu Glu Lys Gly Asp Tyr
 1 5 10 15
 Pro Arg Trp Ser Ala Trp Ser Gly Ser Ser Ser His Asn Ser Asn Gln
 20 25 30
 Leu Leu Ser Phe Arg Pro Val Leu Cys Ala Asn His Asn Asp Ser Arg
 35 40 45
 Val Thr Leu Phe Glu Gly Asp Asn Phe Gln Gly Cys Lys Phe Asp Leu
 50 55 60
 Val Asp Asp Tyr Pro Ser Leu Pro Ser Met Gly Trp Ala Ser Lys Asp
 65 70 75 80
 Val Gly Ser Leu Lys Val Ser Ser Gly Ala Trp Val Ala Tyr Gln Tyr
 85 90 95
 Pro Gly Tyr Arg Gly Tyr Gln Tyr Val Leu Glu Arg Asp Arg His Ser
 100 105 110

5230

Gly Glu Phe Cys Thr Tyr Gly Glu Leu Gly Thr Gln Ala His Thr Gly
 115 120 125

Gln Leu Gln Ser Ile Arg Arg Val Gln His
 130 135

<210> 5950

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5950

Lys Lys Asp Phe Phe Gly Lys Ser Asp Pro Phe Leu Val Phe Tyr Arg
 1 5 10 15

Ser Asn Glu Asp Gly Thr Phe Thr Ile Cys His Lys Thr Glu Val Val
 20 25 30

Lys Asn Thr Leu Asn Pro Val Trp Gln Pro Phe Ser Ile Pro Val Arg
 35 40 45

Ala Leu Cys Asn Gly Asp Tyr Asp Arg Thr Val Lys Ile Asp Val Tyr
 50 55 60

Asp Trp Asp Arg Asp Gly Ser His Asp Phe Ile Gly Glu Phe Thr Thr
 65 70 75 80

Ser Tyr Arg Glu Leu Ser Lys Ala Gln Asn Gln Phe Thr Val Tyr Glu
 85 90 95

Val Leu Asn Pro Arg Lys Lys Cys Lys Lys Lys Tyr Val Asn Ser
 100 105 110

Gly Thr Val Thr Leu Leu Ser Phe Ser Val Asp Ser Glu Phe Thr Phe
 115 120 125

Val Asp Tyr Ile Lys Gly Gly Thr Gln Leu Asn Phe Thr Val Ala Ile
 130 135 140

Asp Phe Thr Ala Ser Asn Gly Asn Pro Leu Gln Pro Thr Xaa Leu His
 145 150 155 160

Tyr Met Ser Pro Tyr Gln Leu Ser Ala Tyr Ala Met Ala Leu Lys Ala

5231

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          165              170              175
Val Gly Glu Ile Ile Gln Asp Tyr Asp Ser Asp Lys Leu Phe Pro Ala
           180                185                  190

Tyr Gly Phe Gly
      195
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<210> 5951

$\langle 211 \rangle$ 124

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5951

Lys Glu His Leu Met Cys Trp Ala Phe Tyr Arg Leu Thr Leu Thr Ser
1 5 10 15

Gln Ala Glu Leu Tyr Thr Phe Ser Phe Thr Thr Ile Ser Ile Leu Ile
20 25 30

Asn Tyr Gly Phe Met Leu Leu Lys Thr Ile Tyr Asn Ala Asp His Tyr
35 40 45

Tyr Lys Cys Val Val Leu Thr Asn Cys Thr Glu Thr Ala Leu Ser Leu
50 55 60

Tyr	Ser	Val	Trp	Ile	Phe	Gly	Glu	Asn	Asn	Lys	Cys	Ser	Gln	Glu	Xaa
65					70					75					80

Leu Leu Arg Gly Arg Leu Cys Glu Trp Ile Thr Leu Lys Ala Ala Phe
85 90 95

Glu Thr Pro Val Ser Gly Ile Ser Cys Ile Leu Ala Trp Arg Pro Asp
100 105 110

Val Asn Leu Thr Ser Ser Lys Asn Thr Arg Phe Pro
115 120

<210> 5952

<211> 129

<212> PRT

<213> Homo sapiens

5232

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5952

Thr	Phe	Ala	Gly	Leu	Cys	His	Ile	Pro	Leu	Ala	Val	Ser	Ser	Glu	Glu
1				5					10					15	

Ala	Pro	Phe	Ala	Leu	Gly	Asn	Gly	Ser	Val	Ser	His	Trp	Phe	Ile	Ser
			20					25					30		

Leu	Glu	Leu	Phe	Gly	Ser	Gln	Ile	Cys	Phe	Phe	Glu	Asn	Leu	Ser	Trp
		35					40					45			

Gly	Arg	Leu	Gln	Val	Val	Asn	Arg	Gly	Val	Gly	Val	Gly	Gly	Gly	Val
	50					55					60				

His	Tyr	Leu	Gly	Leu	Leu	Gly	Ala	Ser	Arg	Phe	Ser	Gly	Arg	Arg	Ile
65					70					75					80

His	Cys	Val	Leu	Leu	Leu	Phe	Pro	Trp	Pro	Gly	Leu	Pro	Ala	Ser	Leu
				85					90					95	

Cys	His	Pro	Ala	Trp	Gly	Lys	Ala	Pro	Thr	Gly	Ile	Val	Ser	Pro	Leu
			100					105					110		

His	Ala	Ser	Leu	Ala	Xaa	Lys	Ser	Gln	Lys	Lys	Ser	Lys	Thr	Gly	Arg
			115				120					125			

Lys

<210> 5953

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

5233

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5953

Val	Leu	Glu	Pro	Gln	Asn	Val	Asp	Pro	Ser	Met	Val	Gln	Met	Thr	Phe
1				5				10				15			
Leu	Asp	Asp	Val	Xaa	His	Ser	Leu	Leu	Lys	Gly	Glu	Asn	Ile	Gly	Ile
			20					25				30			
Thr	Ser	Arg	Arg	Arg	Ser	Arg	Ala	Asn	Gln	Asn	Val	Asn	Ala	Val	His
		35					40					45			
Ser	His	Tyr	Thr	Arg	Ala	Gln	Ala	Asn	Ser	Pro	Arg	Pro	Ala	Met	Asn
	50					55					60				
Ser	Gln	Ala	Ala	Val	Pro	Lys	Gln	Asn	Thr	His	Gln	Gln	Gln	Gln	Gln
65					70				75						80
Arg	Ser	Ile	Arg	Pro	Asn	Lys	Arg	Lys	Gly	Ser	Asp	Ser	Ser	Ile	Pro
				85					90					95	
Asp	Glu	Xaa	Lys	Met	Lys	Glu	Glu	Lys	Tyr	Asp	Tyr	Ile	Ser	Arg	Gly
			100					105					110		
Glu	Asn	Pro	Lys	Gly	Lys	Asn	Lys	His	Leu	Met	Asn	Lys	Arg	Arg	Lys
		115					120					125			
Pro	Glu	Glu	Asp	Glu	Lys	Lys	Leu	Asn	Met	Lys	Arg	Leu	Arg	Thr	Asp
	130					135					140				
Asn	Val	Ser	Asp	Phe	Ser	Glu	Ser	Ser	Asp	Ser	Glu	Asn	Ser	Asn	Lys
145					150					155					160
Arg	Ile	Ile	Asp	Asn	Ser	Ser	Glu	Gln	Lys	Pro	Glu	Asn	Glu	Xaa	Lys
				165					170					175	
Lys	Lys	Tyr													

<210> 5954

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5234

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5954

Ala	Gly	Phe	Cys	Val	Val	Gln	Leu	Arg	Thr	Cys	Phe	Ser	Arg	Gln	Arg	1	5	10	15
Phe	Lys	Ile	Ser	Gly	Asp	Gly	Ile	Arg	Asn	Gly	Asn	Ala	Glu	Arg	Xaa	20	25	30	
Gly	Arg	Gly	Gly	Leu	Tyr	Pro	Gly	His	Pro	Gln	Gly	Gly	Arg	Arg	Ala	35	40	45	
Lys	Lys	Arg	Gln	Ala	Glu	Gln	Leu	Ser	Ala	Ala	Gly	Glu	Gly	Gly	Asp	50	55	60	
Ala	Gly	Arg	Met	Asp	Thr	Glu	Glu	Ala	Arg	Pro	Ala	Lys	Arg	Pro	Val	65	70	75	80
Phe	Pro	Pro	Leu	Cys	Gly	Asp	Gly	Leu	Leu	Ser	Gly	Lys	Glu	Glu	Thr	85	90	95	
Arg	Lys	Ile	Pro	Val	Pro	Ala	Asn	Arg	Tyr	Thr	Pro	Leu	Lys	Glu	Asn	100	105	110	
Trp	Met	Lys	Ile	Phe	Thr	Pro	Ile	Val	Glu	His	Leu	Gly	Leu	Gln	Ile	115	120	125	
Arg	Phe	Asn	Leu	Lys	Ser	Arg	Asn	Val	Glu	Ile	Arg	Thr	Cys	Lys	Glu	130	135	140	
Thr	Lys	Asp	Val	Ser	Ala	Leu	Thr	Lys	Ala	Ala	Asp	Phe	Val	Lys	Ala	145	150	155	160
Phe	Ile	Leu	Gly	Phe	Gln	Val	Glu	Asp	Ala	Leu	Ala	Leu	Ile	Arg	Leu	165	170	175	
Asp	Asp	Leu	Phe	Leu	Glu	Ser	Phe	Glu	Ile	Thr	Asp	Val	Lys	Pro	Leu	180	185	190	
Lys	Gly	Asp	His	Leu	Ser	Arg	Ala	Ile	Gly	Arg	Ile	Ala	Gly	Lys	Gly	195	200	205	
Gly	Lys	Thr	Lys	Phe	Thr	Ile	Glu	Asn	Val	Thr	Arg	Thr	Arg	Ile	Val	210	215	220	
Leu	Ala	Asp	Val	Lys	Val	His	Ile	Leu	Gly	Ser	Phe	Gln	Asn	Ile	Lys	225	230	235	240
Met	Ala	Arg	Thr	Ala	Ile	Cys	Asn	Leu	Ile	Leu	Gly	Asn	Pro	Pro	Ser	245	250	255	

5235

Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg
 260 265 270

Phe

<210> 5955

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5955

Arg Met Glu Arg Ser Leu Lys Gly Ile Phe Ile Lys Gln Val Leu Glu
 1 5 10 15

Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr Gly Asp Lys Ile
 20 25 30

Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser His Ser Glu Ala
 35 40 45

Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val Phe Ile Val Gln
 50 55 60

Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val His Asn Lys Ala
 65 70 75 80

Asn Lys Ile Thr Gly Asn Gln Asn Gln Asp Thr Gln
 85 90

<210> 5956

<211> 203

<212> PRT

<213> Homo sapiens

<400> 5956

Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val
 1 5 10 15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln
 20 25 30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe
 35 40 45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu

5236

50	55	60
Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile		
65	70	75
Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp		
85	90	95
Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn		
100	105	110
Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro		
115	120	125
Glu Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe		
130	135	140
Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His		
145	150	155
Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile		
165	170	175
Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys		
180	185	190
Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met		
195	200	

<210> 5957

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

5237

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5957

Trp	Ala	Leu	Cys	Thr	Asn	Cys	Phe	Ser	Pro	Ser	Pro	Leu	Asp	Leu	Arg
1				5					10					15	

Ile	Lys	His	Pro	Val	Leu	Lys	Leu	Ile	Cys	Cys	Ser	Phe	Val	Asn	Ile
			20					25					30		

Ser	Leu	Arg	Phe	Ser	Leu	Arg	Val	Arg	Xaa	Asn	Ile	Ser	Glu	Pro	Lys
		35					40					45			

Val	Pro	Tyr	Thr	Thr	Leu	Ala	Tyr	Tyr	Ser	Xaa	Xaa	Phe	Lys	Gly	Phe
	50					55					60				

Arg	Ile	Phe	Gly	Ser	His	Xaa	Lys	Ser	Val	Phe	Ile	Met
65					70					75		

<210> 5958

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5958

Cys	Asn	Asp	His	Lys	Ile	Ala	Trp	Lys	Ile	Val	Ile	Gln	Ile	Ser	Thr
1				5					10					15	

Met	Asn	Ser	Xaa	Pro	Lys	Phe	Phe	Phe	Pro	Met	Ile	Lys	Val	Val	Asp
			20					25					30		

<210> 5959

<211> 56

<212> PRT

<213> Homo sapiens

<400> 5959

5238

Asn Gln Val Tyr Phe Leu Met Ala Phe Ile Thr Leu Thr His Lys Val
 1 5 10 15
 Thr Asp Gln Cys Ile Ser Tyr Gly Tyr Arg Pro Arg Ala Leu Glu Gly
 20 25 30
 Gly Gly Leu Leu Lys His Met Gln Lys Lys Lys Lys Lys Lys Phe Cys
 35 40 45
 Ile Tyr Asn His Phe Asn Leu Leu
 50 55

<210> 5960
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 5960
 Gly Tyr Val Cys Glu Phe Leu Gly Asn Leu Ser Val Leu Asp Ala Ser
 1 5 10 15
 Leu Gln Gln Gly Pro Leu Leu Ala Met Asp Gly Pro Gly Arg Ser Leu
 20 25 30
 Glu Ile Thr His Leu Lys Asn Glu Gly Pro Met Lys Val Phe Gly Cys
 35 40 45
 Leu Leu Met Pro Leu Leu Leu Thr Leu Leu Phe Ala Tyr Phe Gln Asn
 50 55 60
 Ile Ile Lys Cys Gln His Ile Ile Ser Glu Arg Gln Val Gly Val Gly
 65 70 75 80
 Glu Lys

<210> 5961
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 5961
 Phe Val Thr Cys His Asn Thr Lys Gln Val Thr Glu Glu Thr Ile Met
 1 5 10 15
 Gly Pro Arg Gly Arg Cys Leu Tyr His Val Asp Lys Ile Gln Ser Ser
 20 25 30

5239

Leu Phe Gln Thr Lys His Phe Ala Leu Glu Thr Phe Glu Thr Ser Met
 35 40 45

Ala Val Glu Tyr Ser Arg Asp Asp Leu Lys Ile Leu Glu Ala Val Glu
 50 55 60

Val Pro Val Val Gly Ala Arg His Gly Ser Gly Asp Pro
 65 70 75

<210> 5962

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5962

Ala Asp Ala Trp Val Asp Tyr Ser Glu Asp Lys Ser Ser Trp Asp Asn
 1 5 10 15

Gln Gln Glu Asn Pro Pro Pro Thr Lys Lys Ile Gly Lys Lys Pro Val
 20 25 30

Ala Lys Met Pro Leu Arg Arg Pro Lys Met Lys Lys Thr Pro Glu Lys
 35 40 45

Leu Asp Asn Thr Pro Ala Ser Pro Pro Arg Ser Pro Ala Glu Pro Asn
 50 55 60

Asp Ile Pro Ile Ala Lys Gly Thr Tyr Thr Phe Asp Ile Asp Lys Trp
 65 70 75 80

Asp Asp Pro Asn Phe Asn Pro Phe Ser Ser Thr Ser Lys Met Gln Glu
 85 90 95

Ser Pro Lys Leu Pro Gln Gln Ser Tyr Asn Phe Asp Pro Asp Thr Cys
 100 105 110

Asp Glu Ser Val Asp Pro Phe Lys Thr Ser Ser Lys Thr Pro Ser Ser
 115 120 125

Pro Ser Lys Ser Pro Ala Ser Phe Glu Ile Pro Ala Ser Ala Met Glu
 130 135 140

Ala Asn Gly Val Asp Gly Asp Gly Leu Asn Lys Pro Ala Lys Lys Lys

5240

145 150 155 160
Lys Thr Pro Leu Lys Thr Glu His Leu Xaa
 165 170

<210> 5963
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5963
Leu Ile Ala Gly Ile Gln His Gly Cys Gln Asp Ile Gly Ala Arg Ser
 1 5 10 15

Leu Ser Val Leu Arg Ser Met Met Tyr Ser Gly Glu Leu Lys Phe Glu
 20 25 30

Lys Arg Thr Met Ser Ala Gln Ile Glu Gly Gly Val His Gly Leu His
 35 40 45

Ser Tyr Glu Lys Arg Leu Tyr
 50 55

<210> 5964
<211> 493
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

5241

<220>
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 <222> (359)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (434)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (436)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (468)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (471)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (473)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (488)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5964
 Val Ile Arg Gly Gly Ser Asn Arg Arg Gly Glu Gly Glu Val Ile Pro
 1 5 10 15
 Glu Glu Ser Arg Leu Gly Arg Thr Arg Trp Pro Gly Asn Arg Val Ile
 20 25 30
 Arg Glu Met Lys Pro Thr Gly Thr Asp Pro Arg Ile Leu Ser Ile Ala
 35 40 45
 Ala Glu Val Ala Lys Ser Pro Glu Gln Asn Val Pro Val Ile Leu Leu
 50 55 60
 Lys Leu Lys Glu Ile Ile Asn Ile Thr Pro Leu Gly Ser Ser Glu Leu
 65 70 75 80

Lys	Lys	Ile	Lys	Gln	Asp	Ile	Tyr	Cys	Tyr	Asp	Leu	Ile	Gln	Tyr	Cys		
				85						90						95	
Leu	Leu	Val	Leu	Ser	Gln	Asp	Tyr	Ser	Arg	Ile	Gln	Gly	Gly	Trp	Xaa		
				100						105						110	
Thr	Ile	Ser	Gln	Leu	Thr	Gln	Ile	Leu	Ser	His	Cys	Cys	Val	Gly	Leu		
				115						120						125	
Glu	Pro	Gly	Glu	Asp	Ala	Xaa	Glu	Phe	Tyr	Asn	Glu	Leu	Leu	Pro	Ser		
				130						135						140	
Ala	Ala	Glu	Asn	Phe	Leu	Val	Leu	Gly	Arg	Gln	Xaa	Gln	Thr	Cys	Phe		
145								150						155		160	
Ile	Asn	Ala	Ala	Xaa	Ala	Glu	Glu	Lys	Asp	Glu	Leu	Leu	His	Phe	Phe		
				165						170						175	
Gln	Ile	Val	Thr	Asp	Ser	Leu	Phe	Trp	Leu	Leu	Gly	Gly	His	Val	Glu		
				180						185						190	
Leu	Ile	Gln	Asn	Val	Leu	Gln	Ser	Asp	His	Phe	Leu	His	Leu	Leu	Gln		
				195						200						205	
Ala	Asp	Asn	Val	Gln	Ile	Gly	Ser	Ala	Val	Met	Met	Met	Leu	Gln	Asn		
				210						215						220	
Ile	Leu	Gln	Ile	Asn	Ser	Gly	Asp	Leu	Leu	Arg	Ile	Gly	Arg	Lys	Ala		
225								230						235		240	
Leu	Tyr	Ser	Ile	Leu	Asp	Glu	Val	Ile	Phe	Lys	Leu	Phe	Ser	Thr	Pro		
				245						250						255	
Ser	Pro	Val	Ile	Arg	Ser	Thr	Ala	Thr	Lys	Leu	Leu	Leu	Leu	Met	Ala		
				260						265						270	
Glu	Ser	His	Gln	Glu	Ile	Leu	Ile	Leu	Leu	Arg	Gln	Ser	Thr	Cys	Tyr		
				275						280						285	
Lys	Gly	Leu	Arg	Arg	Leu	Leu	Ser	Lys	Gln	Glu	Thr	Gly	Thr	Glu	Phe		
290								295						300			
Ser	Gln	Glu	Leu	Arg	Gln	Leu	Val	Gly	Leu	Leu	Ser	Pro	Met	Val	Tyr		
305								310						315		320	
Gln	Glu	Val	Glu	Glu	Gln	Lys	Leu	His	Gln	Ala	Ala	Cys	Leu	Ile	Gln		
				325						330						335	
Ala	Tyr	Trp	Lys	Gly	Phe	Gln	Thr	Arg	Lys	Arg	Leu	Lys	Lys	Leu	Pro		
				340						345						350	

5243

Ser Ala Val Ile Ala Leu Xaa Arg Ser Phe Arg Ser Lys Arg Ser Lys
355 360 365

Met Leu Leu Glu Ile Asn Arg Gln Lys Glu Glu Glu Asp Leu Lys Leu
370 375 380

Gln Leu Gln Leu Gln Arg Gln Arg Ala Met Arg Leu Ser Arg Glu Leu
385 390 395 400

Gln Leu Ser Met Leu Glu Ile Val His Pro Gly Gln Val Glu Lys His
405 410 415

Tyr Arg Glu Met Gly Arg Glu Ile Ser Thr Asp Tyr Pro Glu Thr Leu
420 425 430

Glu Xaa Val Xaa Gly Lys Glu Lys Phe Ser Pro Thr Glu Ala Val Ser
435 440 445

His Arg Ser Ile Lys Ala Thr Val Thr Leu Gln Lys Ser Lys Arg Phe
450 455 460

Lys Phe Leu Xaa Glu Ile Xaa Arg Xaa Glu Lys Arg Lys Leu Phe Cys
465 470 475 480

Leu Pro Trp Ala Lys Gly Pro Xaa Lys Glu Thr Ser Thr
485 490

<210> 5965

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5965

Leu Phe Val Cys Xaa Phe Leu Val Ala Arg Ser Asp Pro Arg Ile Phe
1 5 10 15

Leu Leu Ser Arg Glu Thr Arg Arg Ile Met Arg Leu Phe Leu Val Ala
20 25 30

Phe Gln Glu Tyr Glu Glu Lys Asn Gly Ser Gln Ser Gly Phe Glu
35 40 45

5244

<210> 5966

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5966

Leu His Lys Thr Leu Val Arg Tyr Gln Leu Leu His Arg Glu Ser Ser
1 5 10 15

Tyr Thr Ile Pro Tyr Ile Phe Ile Tyr Leu Leu Phe Tyr Tyr Ser Arg
20 25 30

Ile Thr Lys Leu Asp Ala Leu Ser Gln Phe Phe Ala Thr Glu Asn Tyr
35 40 45

Leu Phe Leu Leu Pro Phe His Thr Pro Cys Ile Tyr Asp Gln Pro Leu
50 55 60

His
65

<210> 5967

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5967

Ala Lys Asn Ile Lys Gly Arg Glu Ile Gly Ile Gln Gly Asp Ser Val
1 5 10 15

Gln Glu Ser Lys Pro Gly Ile Cys Leu Cys Gly Arg Pro Asn His Tyr
20 25 30

Tyr Leu Asn Pro Leu Arg Lys Ala Phe Pro Ala Phe His Asn Ser Gly
35 40 45

Ser Ser Phe Ile Lys Trp Glu Thr His Asn Cys Pro Thr Tyr Leu Thr
50 55 60

Gly Val Leu
65

<210> 5968

<211> 124

<212> PRT

<213> Homo sapiens

5245

<400> 5968

Leu Glu Thr Ser Ala Val Tyr Ile Ser Leu Tyr Ser Phe Phe Ser Pro
 1 5 10 15

Leu Pro Met Met Phe Arg Asn Thr Thr Ile Leu Phe Ala Lys His Ser
 20 25 30

Asn Tyr Leu Ile Ser Lys Gln Val Leu Glu Tyr His Arg Asn His Lys
 35 40 45

Thr Ala His Gln Asn Met Pro His Ser Thr Ser Ser Glu Gln Ser Gly
 50 55 60

Lys Arg Thr Ser Arg Ser Trp Lys Ser Gly Leu Val Leu Ser Arg Ser
 65 70 75 80

Thr Lys Asn Leu Asn Ile Ser Asp Asn His Asn Thr Ser Leu Thr Trp
 85 90 95

Glu Arg Ala Val Ile Ile Phe His Arg Gly Gln Asp Gly Ser Leu Asp
 100 105 110

Glu Glu Val Asp Met Pro Phe Pro Asn Ser Arg Lys
 115 120

<210> 5969

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5969

Ile Cys Pro Arg Ser Pro Ser Lys Val Ser Val Ala Leu Arg Val Arg
 1 5 10 15

Thr Leu Ile Arg Leu Gly Arg Val Leu Glu Ser Leu Arg Arg Gln Glu
 20 25 30

Glu Cys Ala Glu Leu Ser Val Ser Gly Arg Leu Ile His Cys Trp Ala
 35 40 45

His Ile Lys Ala Pro Met Gly Ser Arg Pro Asp Cys Thr Trp Leu Phe
 50 55 60

Cys Trp Lys Lys Ser Met Ala Ala Gln Arg Thr Lys Ile Ser Ser Gly
 65 70 75 80

Lys Ala Ser Phe Asp Cys Gln
 85

5246

<210> 5970

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5970

Met	Glu	Arg	Xaa	Gln	Val	Phe	Asn	Ser	Thr	Asn	Ile	Phe	Phe	Ser	Phe
1				5					10					15	

Val	Pro	Phe	Phe	Cys	Leu	Leu	Tyr	Thr	Asp	Ile	Pro	Thr	Leu	Ala	Thr
			20					25					30		

Ala	Gln	Arg	Gly	Ser	Tyr	Leu	Arg	Asn	Thr	Ala	Asp	Phe	Glu	Tyr	Leu
		35					40					45			

Val	Leu	Gln	Ser	His	Leu	Ser	Glu	Ala
	50					55		

<210> 5971

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5971

Glu	Lys	Lys	Lys	Thr	Leu	Lys	Lys	Lys	Ile	Pro	Lys	Tyr	His	Gln	Pro
1				5					10					15	

Arg	Lys	Glu	Lys	Arg	Arg	Gln	Lys	Pro	Leu	Gly	Gly	Phe	Gly	Lys	Glu
			20					25					30		

Ser	Lys	Glu	Lys	Glu	Pro	Lys	Thr	Lys	Gly	Lys	Asp	Ala	Lys	Asp	Gly
		35					40					45			

Lys	Lys	Asp	Ser	Ser	Ala	Ala	Gln	Pro	Gly	Val	Ala	Phe	Ser	Val	Asp
		50					55				60				

5247

Asn Thr Ile Lys Arg Pro Asn Pro Ala Pro Gly Thr Arg Lys Lys Ser
 65 70 75 80
 Ser Asn Ala Glu Val Ile Lys Glu Leu Asn Lys Cys Arg Glu Glu Asn
 85 90 95
 Ser Met Arg Leu Asp Leu Ser Lys Arg Ser Ile His Ile Leu Pro Ser
 100 105 110
 Ser Ile Lys Glu Leu Thr Gln Leu Thr Glu Leu Tyr Leu Tyr Ser Asn
 115 120 125
 Lys Leu Gln Ser Leu Pro Ala Glu Val Gly Cys Leu Val Asn Leu Met
 130 135 140
 Thr Leu Ala Leu Ser Glu Asn Ser Leu Thr Ser Leu Pro Asp Ser Leu
 145 150 155 160
 Asp Asn Leu Lys Lys Leu Arg Met Leu Asp Leu Arg His Asn Lys Leu
 165 170 175
 Arg Glu Ile Pro Ser Val Xaa Val
 180

<210> 5972

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5972

Ala His Pro Thr Arg Asn Tyr Val Lys Lys Lys Phe Lys Lys Glu Phe
 1 5 10 15
 Lys Gly Asp Tyr Ser Val Thr Val Thr Pro Gly Lys Leu Arg Thr Leu
 20 25 30
 Cys Glu Ile Asp Trp Pro Ala Leu Glu Val Gly Trp Pro Ser Glu Gly
 35 40 45
 Ser Leu Asp Arg Ser Leu Val Ser Lys Val
 50 55

<210> 5973

<211> 35

<212> PRT

<213> Homo sapiens

5248

<400> 5973

Gly Gln Gln Phe Glu Thr Ser Leu Thr Ile Ser Thr Lys Cys Thr Lys
1 5 10 15

Val Ser Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Trp Glu
20 25 30

Thr Asp Ala
35

<210> 5974

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5974

Arg Asn Ser Gly Phe Cys Cys Asn Arg Phe Ile Phe Leu Leu Phe Ser
1 5 10 15

Pro Ile Leu Ala Gln Ser Gly Ala Ile Val Leu Leu Val Arg Pro Ser
20 25 30

Leu Lys Met Arg Ser Arg Glu Ala Gly Pro Lys Leu Arg Arg Ile Gln
35 40 45

Glu Pro Ala Asn Gly Ser Pro Gly Ala Val Ser Glu Thr Gly Gly Tyr
50 55 60

Arg Glu Glu Arg Leu Ser Asp Ala Glu Ile Met Gly Lys Leu Leu Ala
65 70 75 80

Trp Leu Ala Val Gly Met
85

<210> 5975

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

5249

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5975

Ile Phe Ser Asn Leu Val Phe Phe Tyr Ile Ile Ile Ala Ser Leu Lys

1

5

10

15

Ile Val Leu Gln Ala Xaa His Gly Trp Val Thr Pro Val Tyr Leu Thr

20

25

30

Leu Trp Glu Ala Glu Ala Gly Lys His Leu Lys Ser Gly Xaa Gln Asn

35

40

45

Asn Pro Gly His Trp

50

<210> 5976

<211> 27

<212> PRT

<213> Homo sapiens

<400> 5976

Cys Leu Gly Ala Tyr Ala Asp Tyr Ser Leu Arg Gly Gly Val Glu Arg

1

5

10

15

Arg Arg Arg Tyr Ala Gly Arg Arg Val Leu Cys

20

25

<210> 5977

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

5250

<400> 5977

Val Ser Arg Leu Val Ser Lys Glu Phe Ser Lys Ser Trp Ser Cys Gly
1 5 10 15

Gly Cys Ser Tyr Ala Ala Gly Ala Val Thr Glu Arg Gln Glu Gly Leu
20 25 30

Gly Gly Lys Gly Arg Arg Leu Asn Gln Ala Pro Ala Trp Thr Trp Ala
35 40 45

Cys Val Leu Xaa Ser His Leu Ser Ser Arg Thr Gln Val Gly Lys Ser
50 55 60

Leu Ser Gly His Xaa Pro Leu Gly Gly Val Gly Leu Ser Val Pro Phe
65 70 75 80

Leu Ala Val Thr Ser Xaa Cys Ala Arg Val Glu
85 90

<210> 5978

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

5251

<220>
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 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5978
 Ala Leu Val Ser Val Leu Thr Lys Glu Tyr Glu Asp Ala Val Ser Ile
 1 5 10 15
 Ala Thr Ala Val Leu Val Val Val Thr Val Ala Phe Ile Gln Glu Tyr
 20 25 30
 Arg Ser Glu Lys Ser Leu Glu Glu Leu Thr Lys Leu Val Pro Pro Glu
 35 40 45
 Cys Asn Cys Leu Arg Glu Gly Lys Leu Gln His Leu Leu Ala Arg Glu
 50 55 60
 Leu Val Pro Gly Asp Val Val Ser Leu Ser Ile Gly Asp Arg Ile Pro
 65 70 75 80
 Ala Asp Ile Arg Leu Thr Glu Val Thr Asp Leu Leu Val Asp Glu Ser
 85 90 95
 Ser Phe Thr Gly Glu Ala Glu Pro Cys Ser Xaa Thr Asp Ser Pro Leu
 100 105 110
 Thr Gly Gly Gly Xaa Leu Thr Thr Leu Ser Asn Ile Val Phe Xaa Gly
 115 120 125
 Xaa Leu Val Gln Tyr Gly Xaa Gly Gln Gly Val Xaa Ile Gly Thr Gly

5252

130		135		140
Glu Ser Ser Gln Phe Gly Xaa Xaa Phe Lys Met Met Gln Ala Glu Glu				
145		150	155	160
Thr Pro Lys Thr Pro Leu Gln Lys Ser Met Asp Arg Leu Gly Lys Gln				
	165		170	175
Leu Thr Leu Phe Ser Phe Gly Ile Ile Gly Leu Ile Met Leu Ile Gly				
	180		185	190
Trp Ser Gln Gly Lys Gln Leu Leu Ser Met Phe Thr Ile Gly Val Ser				
	195	200		205
Leu Ala Val Ala Xaa Ile Ser Xaa Gly Ser Ala His Ser Ser Ser Trp				
	210	215		220

<210> 5979
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 5979
 Pro Cys Cys Ile Trp Lys Ala Lys Trp Gly His Glu Glu Gly Trp Lys
 1 5 10 15
 Gly Gln Gly Val Met Ala Ala Tyr Leu Val Ser Pro Thr Pro Pro Val
 20 25 30
 Leu Gly Glu Pro Ser Cys Tyr Thr Gly Ser Ser Pro Arg Ser Ser Phe
 35 40 45
 Leu Ser Pro Thr Ser Trp Trp Arg Leu Gln Gly Arg Pro Glu Ser Trp
 50 55 60
 Thr Glu Arg Val Thr Gly Gly Val Gly Asp Lys His Gln Thr Ser Ile
 65 70 75 80
 Val Cys Pro Asp Leu Gly Val Ile Gly Gly Met Gly Trp Glu Arg Val
 85 90 95
 Ser Trp Tyr Ser His Gly Leu Ile Phe Phe Val Ser Ile Pro Phe Ile
 100 105 110
 Ser Leu Cys Leu Asn Arg Gly Gly Gly Val Val Thr Gly Asn Lys Asp
 115 120 125

5253

Leu Arg Ser Ser Ala Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 130 135 140

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 145 150 155

<210> 5980

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5980

Ile Arg His Glu Gly Thr Leu Pro Leu Gln Arg Val Arg Ala Leu Leu
 1 5 10 15

His Pro Gln Arg Ser Xaa Ala Lys His Leu Arg Gly His Ala Ser Val
 20 25 30

Arg Pro Cys Arg Cys Asn Glu Cys Xaa Lys Ser Phe Ser Arg Arg Asp
 35 40 45

His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Phe Thr
 50 55 60

Cys Pro Thr Cys Gly Lys Ser Phe Ser Arg Gly Tyr His Leu Ile Arg
 65 70 75 80

His Gln Arg Thr His Ser Glu Lys Thr Ser
 85 90

<210> 5981

<211> 54

<212> PRT

<213> Homo sapiens

<220>

5254

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5981

Phe	Ser	Ser	Pro	Gly	Val	Val	Gly	Arg	Cys	Lys	Leu	Lys	Gly	Thr	Leu
1				5				10					15		

Gly	Gly	Gly	Gly	Arg	Gly	Glu	Asp	Asp	Ser	Asp	Pro	Ser	Pro	Val	Gly
			20				25					30			

Val	Arg	Ile	Thr	Gln	Glu	Leu	Arg	Xaa	Arg	Glu	Glu	Gly	Xaa	Arg	Arg
		35					40					45			

Leu	Gln	Leu	Leu	Gln	Gly
		50			

<210> 5982

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5982

Gly	Arg	Gln	Pro	Ala	Pro	Leu	Val	Pro	Pro	Cys	Ser	Ser	Ser	His	Tyr
1				5				10						15	

His	Arg	Pro	His	Thr	Leu	Thr	Arg	Thr	Leu	Thr	His	Arg	Ser	Leu	Gln
		20					25					30			

Arg	Met	Arg	Trp	Gly	Tyr	Asp	Arg	Ser	Leu	Arg	Leu	Val	Ser	Xaa	Ser
		35				40					45				

Leu	Leu	Gln	Pro	Pro	Pro	Gly	Phe	Gln	Pro	Ile	Leu	Phe	Ala	Ala	Gly
		50				55				60					

Val	Pro	Thr	Leu	Pro	Tyr	Ser	Gln	Leu	Leu	Phe	Pro	Ala	Asp	Gly	Glu
	65				70					75				80	

Met	Asp	Ser	Ala	Ala	Tyr	Pro	Pro	Thr	Pro	Leu	Gln	Gly	Val	Glu	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5255

85

90

95

<210> 5983

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5983

Glu Lys Thr Gln Val Cys Asp Ile Ser Val Ile Pro Lys Asn Ile Leu
 1 5 10 15

Gly Phe Leu Phe Val Phe Leu Phe Phe Gly Phe Phe Phe Phe Thr Ala
 20 25 30

Glu Asn Trp Trp Tyr Phe His Ile His Ser Val Ser Ile Gln Phe Gln
 35 40 45

Tyr Pro His Leu Met Arg Lys Lys Cys Phe Thr Asn Glu Gly Gly Ile
 50 55 60

Leu Lys Leu Ala Val Met Leu Gly Trp Arg Lys Phe Gly Ile
 65 70 75

<210> 5984

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5984

Lys Ile Thr Met Trp Met Ala Val Ser His Ile Thr Asp Val Glu Ser
 1 5 10 15

Ile Ile Leu Tyr Leu Tyr Phe Gln Ile Asn Lys Phe Val Lys Gly Phe
 20 25 30

His Pro Leu Leu Trp Ser Arg Lys Met Leu Glu Ile Tyr Ile Xaa Ile
 35 40 45

Asp Thr Tyr Ile Cys Ile Tyr Ile Lys Lys Ile Leu Thr Thr Lys Val

5256

50 55 60
 Pro Glu Pro Pro Ser Lys Val Leu Tyr Tyr Cys Ile Leu Tyr Ile Met
 65 70 75 80
 Tyr His Pro Met Trp Asn Leu
 85

<210> 5985
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 5985
 Asp Lys Ser Ile Lys Asn Lys Ala Glu Arg Glu Arg Arg Val Arg Glu
 1 5 10 15
 Leu Asn Ser Ser Asn Thr Lys Lys Phe Leu Glu Glu Arg Lys Arg Leu
 20 25 30
 Ala Met Lys Gln Ser Lys Glu Met Asp Gln Leu Lys Lys Val Gln Leu
 35 40 45
 Glu His Leu Glu Phe Leu Glu Lys Gln Asn Glu Gln Leu Leu Lys Ser
 50 55 60
 Cys His Ala Val Ser Gln Thr Gln Gly Glu Gly Asp Ala Ala Asp Gly
 65 70 75 80
 Glu Ile Gly Ser Arg Asp Gly Pro Gln Thr Ser Asn Ser Ser Met Lys
 85 90 95
 Leu Gln Asn Ala Asn
 100

<210> 5986
 <211> 216
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5986
 Lys Ser Ser Arg Gly Asn Thr Gln Ala Thr Ser His Ser Phe Asp Val

5257

1	5	10	15
Arg Val Leu Thr Gln Leu Leu Leu Asn Ser Asp His Arg Ser Thr Ala	20	25	30
Thr Val Gln Ile Cys Ser Gly Ser Val Asn Leu Lys Gly Ala Val Lys	35	40	45
Cys Arg Ala Tyr Ile His Ser Ser Lys Pro Lys Val Lys Asp Ala Val	50	55	60
Gln Ala Val Lys Arg Asp Ile Leu Asn Thr Val Ala Asp Arg Cys Glu	65	70	75
Met Leu Phe Glu Asp Leu Leu Leu Asn Glu Ile Pro Glu Lys Lys Xaa	85	90	95
Ser Glu Lys Glu Phe His Val Leu Pro Tyr Arg Val Phe Val Pro Leu	100	105	110
Pro Gly Ser Thr Val Met Leu Cys Asp Tyr Lys Phe Asp Asp Glu Ser	115	120	125
Ala Glu Glu Ile Arg Asp His Phe Met Glu Met Leu Asp His Thr Ile	130	135	140
Gln Ile Glu Asp Leu Glu Ile Ala Glu Glu Thr Asn Thr Ala Cys Met	145	150	155
Ser Ser Ser Met Asn Ser Gln Ala Ser Leu Asp Asn Thr Asp Asp Glu	165	170	175
Gln Pro Lys Gln Pro Ile Lys Thr Thr Met Leu Leu Lys Ile Gln Gln	180	185	190
Asn Ile Gly Val Ile Ala Ala Phe Thr Val Ala Val Leu Ala Ala Gly	195	200	205
Ile Ser Phe His Tyr Phe Ser Asp	210	215	

<210> 5987

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5987

Pro Phe Leu Val Ser Val Phe Pro Gly Glu Asn Glu Ala Lys Gln Glu	1	5	10	15
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5258

Phe Gly Phe Leu Leu Met Ser Ser Tyr Thr Ile His Ser Val Asn Phe
 20 25 30
 Glu Lys Ile Tyr Pro Pro Phe Ser Leu Leu Gly Asp Ile Asn Tyr Ser
 35 40 45
 Gln Glu Glu Tyr Asn Glu Leu Tyr Ser Tyr Phe Asp Leu Leu Lys Arg
 50 55 60
 Cys Tyr Gln
 65

<210> 5988
 <211> 162
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5988
 Pro Ala Glu Leu Lys Cys Ala Val Thr Ser Gln Cys Glu Phe Leu Pro
 1 5 10 15

Asn Ser Arg Ala Tyr His Leu Lys Lys Glu Arg Thr Glu Glu Gln Thr
 20 25 30

Lys Val Leu Arg Asn Glu Thr His Leu Phe Ser Leu Lys Ala Leu Arg
 35 40 45

Gly Gly Arg Arg Pro Ala Gln Ala Gly Gly Gly Phe Gly Gln Ser Glu

5259

50 55 60
 Asp Pro Ala Arg Thr Leu Val Arg Trp Xaa Ala Ala His Leu Leu Arg
 65 70 75 80
 Ile Leu Leu Glu Ser Cys Ser Pro Arg Gly Leu Leu Xaa Xaa Trp Xaa
 85 90 95
 Lys Glu Ala Ala Trp Cys Gly Val Thr Gln Ile Ser Ile Pro Ile Cys
 100 105 110
 Cys Thr Phe Thr Leu Gln Gly Thr Cys Phe Lys Thr Asp Pro Gln Gln
 115 120 125
 Val Leu Glu Lys Cys Ile Gln Ser Glu Asp Val Cys Val Ser Val Tyr
 130 135 140
 Ile Gln Ser Ser Val Thr His Ala Pro Gln Ile Ala Ala Lys Ile Pro
 145 150 155 160
 Arg His

<210> 5989

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5989

Asn Cys Ala Phe Ser Gly Leu Leu Ser Ser Ile Pro Ser Phe Ser Leu
 1 5 10 15
 Leu Ser Ser Phe Gln His Val Thr Val Lys Ala Phe Ser Leu Ile Phe
 20 25 30
 Tyr His Cys Glu Tyr Val Pro Phe Glu Asn Pro Phe Ala Val Ile Phe
 35 40 45
 Val Gly Phe Gly Glu Glu Ala Val Val Asn Ala Cys Ile Ile Leu Ser

5260

50 55 60
Ser Lys Cys Ser Met Leu Ala Leu Leu Ile Ser Gly Asp Val Arg Xaa
65 70 75 80
Gln Leu Leu Ser Leu Xaa Lys
85

<210> 5990
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5990
Arg Pro Ala Glu Asp Val Leu Gln Val Arg Glu Thr Gly Pro Gly Asn
1 5 10 15
Pro Ala Val Thr Glu Asp Tyr Ile Glu Phe Glu Asn Val Gly Ile Phe
20 25 30
Glu Asn Ala Pro Pro Lys Lys Leu Leu Met Ser Ser Gly Asn Val Arg
35 40 45
Arg Leu Ile Tyr Thr Asp Thr Ala Glu Glu Lys Gly Arg Arg Ile Lys
50 55 60
Asp Pro Val Leu Leu Pro Gly
65 70

<210> 5991
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)

5261

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5991

Gly	Tyr	Trp	Thr	Phe	Asp	Met	Glu	Cys	Tyr	Lys	Lys	Tyr	Arg	Lys	Val
1				5					10					15	

Trp	Gly	Ile	Tyr	Asp	Cys	Gln	Gln	Pro	Met	Leu	Ala	Ile	Thr	Asp	Pro
			20					25					30		

Asp	Met	Ile	Lys	Thr	Val	Leu	Val	Lys	Glu	Cys	Tyr	Ser	Val	Phe	Thr
	35					40						45			

Asn	Arg	Xaa	Pro	Phe	Gly	Pro	Val	Gly	Phe	Met	Lys	Asn	Ala	Ile	Ser
	50					55					60				

Ile	Ala	Glu	Asp	Glu	Glu	Trp	Lys	Arg	Ile	Arg	Ser	Leu	Leu	Ser	Pro
65					70					75					80

Thr	Phe	Thr	Ser	Gly	Lys	Leu	Lys	Glu	Met	Phe	Pro	Ile	Ile	Ala	Gln
				85					90					95	

Tyr	Gly	Asp	Val	Leu	Val	Arg	Xaa	Leu	Arg	Arg	Glu	Ala	Glu	Lys	Gly
			100					105					110		

Lys	Pro	Val	Thr	Leu	Lys	Asp	Xaa	Phe	Gly	Ala	Tyr	Ser	Met	Asp	Val
		115					120					125			

Ile	Thr	Xaa	Thr	Ser	Phe	Gly	Val	Xaa	Ile	Asp	Ser	Leu	Asn	Asn	Pro
	130					135					140				

Gln	Asp	Pro	Phe	Val	Glu	Ser	Thr	Lys	Lys	Phe	Leu	Lys	Phe	Gly	Phe
145					150					155					160

Leu	Asp	Pro	Leu	Phe	Leu	Ser	Ile	Ile	Leu	Phe	Pro	Phe	Leu	Thr	Pro
				165					170					175	

Val	Phe	Glu	Ala	Leu	Asn	Val	Ser	Leu	Phe	Pro	Lys	Asp	Thr	Ile	Asn
			180					185					190		

Phe	Leu	Ser	Lys	Ser	Val	Asn	Arg	Met	Lys	Lys	Ser	Arg	Leu	Asn	Asp
			195				200					205			

5262

Lys Gln Lys Val Lys Ser Asp Gly Gly
 210 215

<210> 5992

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5992

Val Pro Pro Ala Cys Cys Ala Ser Arg Val Ala Arg Leu Gly Phe Ser
 1 5 10 15

Arg Cys Thr Cys Pro Arg Trp Pro Gly Pro Xaa Ala Xaa Arg Ala Ala
 20 25 30

Ala Gly Ala Leu Pro Arg Gly Gln Val Arg Ile Trp Pro Arg Ser His
 35 40 45

Pro Ser Ser Thr Ala Arg Thr Pro His Ser Leu Pro Gln Ser Ile Cys
 50 55 60

Leu Ser Pro Met Gly Lys Leu Ile Asn Phe Ala Leu Asp
 65 70 75

<210> 5993

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5993

Lys Met Leu Asn Arg Phe His Asp Cys Leu Leu Glu Asp Phe Lys Val
 1 5 10 15

His Cys Gly Ser Ser Arg Arg Asn Pro Val Asn His Ser Ser His Leu
 20 25 30

5263

Pro Thr Gly Leu Phe Ser Asn Gly Ala Ser Cys Glu Ala Ser Gly Phe
 35 40 45

Phe Cys Cys Cys Tyr Leu Phe Phe Phe Phe Asn Ala Leu Glu Asn Thr
 50 55 60

Ala Leu Gly Tyr
 65

<210> 5994
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 5994
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Leu Leu Ser Pro Ala
 1 5 10 15
 Leu Pro Cys Thr Val His Ser Ser Ser Thr Met Ala Ser Arg Thr Pro
 20 25 30
 Arg Asn Cys Ala Val Leu Lys Gly Glu Val Asp Leu Thr Ala Leu Ala
 35 40 45
 Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His Lys Val Thr
 50 55 60
 Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr Asp Glu Glu Asp
 65 70 75 80
 Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser Thr Ser Gly Pro Glu
 85 90 95
 Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu Ser Asn Gly Glu Thr Glu
 100 105 110
 Ser Val Lys Thr Met Ile Val His Asp Asp Val Glu Ser Glu Pro Ala
 115 120 125

<210> 5995
 <211> 52
 <212> PRT
 <213> Homo sapiens

5264

<400> 5995

His Ser Leu Lys Tyr Ile Tyr Leu Ile Thr Phe Tyr Asn Lys Glu Leu
 1 5 10 15
 Leu Ser Pro Asn Val Ile Ser Ala His Phe Glu Ile Pro Cys Tyr Arg
 20 25 30
 Trp Ser Leu Gln Thr Arg Lys Tyr Ser Ser Tyr Tyr Val Tyr Thr Leu
 35 40 45
 Val Leu Val Leu
 50

<210> 5996

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5996

Ile Ser Pro Gly Gln Ser Gly Met Leu Thr Gly Thr Asn Val Arg Asn
 1 5 10 15
 Cys Ile Val His Cys Thr Cys Cys Pro Val Pro Gln Ala Cys Gln Cys
 20 25 30
 Leu Glu Ile Leu Phe Gly Leu Leu Lys Pro Leu Phe Ile Glu Asn Phe
 35 40 45
 Cys Pro Tyr Arg Ser Val Cys Met Gly Leu Gly Lys Ser Thr Cys Val
 50 55 60
 Tyr Leu Ser Ser Glu Ala Gln Ile His Ser Asn
 65 70 75

<210> 5997

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5997

Pro Asp Leu Phe Ala His Arg Glu Val Pro Leu Ser Leu His Gly Leu
 1 5 10 15
 Ser Asp Leu Ile Pro Pro His Ser Gln Phe Gln Val Val Glu Gln Asp
 20 25 30
 Glu Ala Ala Pro Ser Pro Leu Pro His Pro Asp Ser Ala Ala Glu Phe

```

35              40              45
Ile Pro Gln Glu Arg Gly Ser Thr Asp Ser Val His Ala Cys Gly
  50              55              60

<210> 5998
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5998
Xaa Ser Ala Ser Leu Xaa Glu Gln Lys Leu Glu Leu His Arg Gly Gly
  1              5              10              15
Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
              20              25              30
Arg Ser Gly Gly Pro Arg Leu Pro Gln Ala Gln Lys Thr Ala Ala Leu
  35              40              45

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5266

Pro Arg Thr Arg Gly Ala Gly Leu Leu Glu Ser Glu Leu Arg Asp Gly
 50 55 60
 Ser Gly Lys Lys Val Ala Val Ala Asp Val Gln Phe Gly Pro Met Arg
 65 70 75 80
 Phe His Gln Asp Gln Leu Gln Val Leu Leu Val Phe Thr Lys Glu Asp
 85 90 95
 Asn Gln Cys Asn Gly Phe Cys Arg Ala Cys Glu Lys Ala Gly Phe Lys
 100 105 110
 Cys Thr Val Thr Lys Glu Ala Gln Ala Val Leu Ala Xaa Phe Leu Asp
 115 120 125
 Lys His His Asp Ile Ile Ile Ile Asp His Arg Asn Pro Arg Gln Leu
 130 135 140
 Asp Ala Glu Ala Leu Cys Arg Ser Ile Arg Ser Ser Lys Leu Ser Glu
 145 150 155 160
 Asn Thr Val Ile Val Gly Val Val Arg Xaa Val Asp Arg Glu Glu Leu
 165 170 175
 Ser Val Met Pro Phe Ile Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu
 180 185 190
 Asn Pro Asn Ile Met Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe
 195 200 205
 Gly Glu Gly Ala Ile Thr Thr Xaa Thr Xaa Gly Leu Leu Leu Lys Tyr
 210 215 220
 Ser Leu
 225

<210> 5999

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5999

Gly Xaa Val Gly Pro Ser Leu Val Ser Arg Ile Glu Asn Ile Gln Asn

5267

1 5 10 15
 Asp Ile Ser Leu Val Ser Phe Glu Gly Asn Asn Gln Arg Trp Ser Thr
 20 25 30
 Gln Leu Leu Val Leu Leu Phe Thr Ile Ser His Leu Val Gln Ser Gly
 35 40 45
 Ser Tyr Ile
 50

<210> 6000
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6000
 Val Leu Asn Ser Met Leu Lys Ser Asn Trp Ile Trp Ser Arg Pro Thr
 1 5 10 15

Pro Arg Val Val Ser Gly Val Phe Phe Gln Xaa Leu Ser Gln Thr Thr
 20 25 30

Gln Val Xaa Leu Xaa Leu Xaa Ala Ala Leu Trp Xaa Gly Val Glu Gly

35					40					45						
Gly	Gly	Gln	Gln	Met	His	Cys	Arg	Val	Ile	Phe	Leu	Gly	Met	Val	Phe	
50					55					60						
Lys	Lys	Pro	Glu	Ile	Phe	Thr	Arg	Thr	Ser	Lys	Thr	Arg	Ser	Gly	Glu	
65					70					75					80	
Leu	Gly	Arg														

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<400> 6001
Arg Cys Pro Ile Ala Ser Glu Val Pro Trp Thr Ile Thr Glu Ala Glu
  1             5             10             15
Leu Arg Val Thr Leu Thr Val Glu Gly Lys Ser Ile Pro Cys Leu Ile
      20             25             30
Asp Thr Gly Ala Thr His Ser Thr Leu Pro Ser Phe Gln Gly Pro Val
      35             40             45
Ser Leu Ala Pro Ile Thr Val Val Gly Ile Asp Gly Gln Ala Ser Lys
      50             55             60
Pro Leu Lys Thr Pro Pro Leu Trp Cys Gln Leu Gly Gln His Ser Phe
      65             70             75             80
Met His Ser Phe Leu Val Ile Pro Thr Cys Pro Leu Pro Leu Leu Gly
      85             90             95
Arg Asn Ile Leu Thr Lys Leu Ser Ala Ser Leu Thr Ile Pro Gly Val
      100            105            110
Gln Leu His Leu Ile Ala Ala Leu Leu Pro Asn Pro Lys Pro Pro Leu
      115            120            125
Cys Pro Leu Thr Ser Pro Gln Tyr His Pro Leu Pro Gln Asp Leu Pro
      130            135            140
Ser Ala
145

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5269

<210> 6002

<211> 111

<212> PRT

<213> Homo sapiens

<400> 6002

Ile Pro Tyr Ser Ala Tyr Ile Lys Ser Lys Met Trp Gly Arg Ser Leu
 1 5 10 15

Leu Leu Pro Gly Gly Asp Gly Ser Pro Leu Thr Leu Leu Gly Glu Gly
 20 25 30

Gly Ser Cys Trp Pro Val Gly Met Lys Val Leu Ala Pro His Leu Val
 35 40 45

Phe Pro Asp Thr Thr Ala Val Gly Cys Trp Gly Ala Pro Leu Gln Pro
 50 55 60

Phe Glu Cys Gly Ile Leu Gly Ser Pro Leu Asp Leu Pro Trp Cys Gly
 65 70 75 80

Gln Arg Phe Phe Leu Trp Cys Leu Leu Gly Val Glu Gln Leu Ser Ser
 85 90 95

Lys Ser Phe Leu Ser Cys Trp Asp Val Leu Phe Trp Ser Phe Ser
 100 105 110

<210> 6003

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6003

Arg Trp Ala Leu Asp Leu Leu Ile Leu Val Lys Trp Val Trp Asp Leu
 1 5 10 15

Leu Thr Phe Val Leu Arg Arg Asp Arg Pro Gly Lys Glu Leu Gly Glu
 20 25 30

Val Ser Ser Lys Glu Arg Gly Val Gly Thr Arg Met Glu Glu Ser Gly
 35 40 45

Leu Gln Ile Ala Phe Thr Ser Pro Phe Phe Leu Glu Ser Leu Ser Xaa
 50 55 60

5270

Arg
65

<210> 6004
<211> 427
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6004
Ala Ala Cys Cys Phe Ser Cys Trp Ala Ser Ser Gly Phe Ala Phe Val
1 5 10 15
Ala Ser Glu Pro Leu Ala Phe Lys Pro Leu Ser Leu Leu Leu Pro His
20 25 30
Thr Pro Leu Ser Leu Thr Pro Leu Phe Cys Cys Pro Val Thr Cys Pro
35 40 45
Lys Leu Cys Pro Glu Leu Arg Thr Phe Pro Phe Leu Ser Leu Glu Pro
50 55 60
Phe Phe Asp Ser Thr Lys Pro Ser Trp Tyr Pro Gly Met Thr Arg Leu
65 70 75 80
Leu Asp Ala Glu Trp Trp Arg Arg Ser Glu Ala Gly His Leu Arg Arg
85 90 95
Gln Val Ala Ala Val Leu Phe Phe Pro Glu Gly Thr Cys Ser Asn Lys
100 105 110
Lys Ala Leu Leu Lys Phe Lys Pro Gly Ala Phe Ile Ala Gly Val Pro
115 120 125
Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr Ser
130 135 140
Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu Thr Ala
145 150 155 160
Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro Val Tyr His
165 170 175
Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr Ala Asn Asn Val

5271

	180		185		190
Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu					
195		200		205	
Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala					
210		215		220	
Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly					
225		230		235	240
Leu Ser Ala Gly Tyr Val Asp Ala Gly Ala Glu Pro Gly Arg Ser Arg					
	245		250		255
Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro					
	260		265		270
Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly					
	275		280		285
Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly					
	290		295		300
Gly Arg Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala					
305		310		315	320
Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe					
	325		330		335
Ser Thr Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr					
	340		345		350
Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser					
	355		360		365
Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys					
	370		375		380
Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser					
385		390		395	400
Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn					
	405		410		415
Gly Thr Val Gln Ala Pro Lys Gln Lys Gly Asp					
	420		425		

<210> 6005

<211> 68

5272

<212> PRT

<213> Homo sapiens

<400> 6005

Ile Tyr Thr Asn Arg Lys Leu Gly Thr Asn Leu Leu Cys Leu Trp Leu
 1 5 10 15

Leu Tyr Asn Tyr Gln Gly Lys Gly Asn Leu Pro Ile Lys Tyr Lys Val
 20 25 30

Val Lys Phe Lys Ile Thr Ile Ile Asn Asn Val Leu Leu Leu Gln Asn
 35 40 45

Glu Met Leu Gly Leu Ile Ile Glu Gly Ser Ser Thr Val Glu Ile Glu
 50 55 60

Leu Asn Gly Ser
 65

<210> 6006

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6006

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Val Lys Leu Xaa Phe
 1 5 10 15

Xaa Tyr Gln Tyr Met His Val Leu Cys Met Ser Ser Thr Cys Val Asp
 20 25 30

Thr Pro Val Asp Val Lys Leu Leu Tyr Asn Ile Asn Ser Met Cys Phe
 35 40 45

Tyr Ile Ser Leu Cys Lys Phe Asn Ile Thr Tyr Ala Val Ile Asn His
 50 55 60

Leu Phe Tyr Cys Cys
 65

5273

<210> 6007
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6007
Gln Met Glu Gly Tyr Phe Ser Val Leu Ala Phe Gln Leu Tyr Val Gly
1 5 10 15
Lys Leu Pro Val Leu Leu Gln Val Gln Ser Thr Leu Asp Asp Leu Ser
20 25 30
Ile Asn Tyr Ser Gly Cys Asn Ser Pro Lys Xaa Ser Ser Tyr Ile Phe
35 40 45
Trp Leu Ile Pro Pro His Leu Ser Ile Gln Ser Asp Gly Lys Arg Gly
50 55 60

5274

Arg Trp Ile Leu Met Ser Cys Xaa Leu Xaa Pro Tyr Phe Gln Val Leu
 65 70 75 80

Trp Trp Xaa Arg Xaa Asn Ile Cys Gln Xaa Ser Gly Phe Leu Ala Arg
 85 90 95

Cys

<210> 6008

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6008

Ile Ile Leu Tyr Gln Gly Gln Arg Asp Phe Cys Arg Thr Ser Pro Leu
 1 5 10 15

Glu Glu Leu Ser Leu Gly Arg Asn Thr Arg Ile Asn Ile Ser Thr Tyr
 20 25 30

Ser Ser Pro Lys Asn Phe Pro Pro His Tyr Ser His Leu Pro Ile Asn
 35 40 45

Asn Leu Leu Trp Val Asn Ile Gln His Ser Val Leu Val Gln Ser Ile
 50 55 60

Cys Ser Ala Ile Thr Val Xaa Ser Thr Xaa
 65 70

<210> 6009

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5275

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6009

Met	Pro	Gly	Ile	Val	Cys	Lys	Gly	Ile	Val	Asp	Asn	Lys	Val	Ile	Leu
1				5				10					15		

Met	Thr	Arg	Xaa	Lys	Ser	Phe	Leu	Leu	Ser	Leu	Ile	Arg	Pro	Leu	Val
			20				25					30			

Gly	Trp	Gly	Val	Gly	Arg	Arg	Val	Val	Leu	Thr	Glu	Ser	Phe	Lys
		35					40					45		

<210> 6010

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6010

Gly	Val	Tyr	Leu	Asn	Val	Leu	Pro	Ser	Pro	Phe	Pro	Ser	Arg	Leu	Cys
1				5				10					15		

Ser	Phe	Glu	Gly	Leu	Gly	Val	Cys	Ser	Arg	Pro	Cys	Cys	Leu	Ala	Gln
			20				25					30			

Asn	Met	Leu	Arg	Lys	Val	Leu	Arg	Thr	His	Phe	Phe	Pro	Ile	Lys	Pro
			35				40					45			

Ile	Ser	Phe	Pro	Asn	His	Lys	Gly	Val	Cys	Asp	Ser	Ser	Pro	Arg	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5276

50	55	60
Thr Lys Glu Leu Gln Xaa Gly Val Trp Phe Ser Pro Val Gln Thr His		
65	70	75 80
Pro Glu Leu Xaa Arg Cys Leu Ser Asn Thr Leu Ser Leu Pro Lys Gln		
	85	90 95
Pro Val Gln Thr Phe Ser Leu Gly His Glu Ala Pro Arg Val Leu Pro		
	100	105 110
Val Pro Xaa Ser Asp Ala Tyr Leu Ser Ala Glu Pro Gln Asn Leu Cys		
	115	120 125
Ser Gly Asn Ala Val His Leu Leu Ser Val Gly Ser Glu His Ile Val		
	130	135 140
Leu Xaa Asp Thr Ser Phe		
145	150	

<210> 6011

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

5277

<400> 6011

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Val Leu Arg Met Gln His Gly Ser Gly Phe Gly Ile Xaa Phe Asn Ala
 1              5              10              15

Thr Asp Ala Leu Arg Cys Val Asn Asn Tyr Gln Gly Met Leu Lys Val
          20              25              30

Ala Cys Ala Glu Glu Trp Gln Glu Ser Arg Thr Glu Gly Glu His Ser
          35              40              45

Lys Glu Val Ile Lys Pro Tyr Asp Trp Thr Tyr Xaa Xaa Asp Tyr Lys
          50              55              60

Gly Xaa Leu Leu Gly Glu Ser Leu Lys Leu Lys Val Xaa Ser Ile
          65              70              75

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<210> 6012

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6012

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Ile Phe Arg Ser Asp Phe Leu Leu His Phe Tyr Leu Thr Lys Glu Thr
 1              5              10              15

Gly His Thr Pro Trp Phe Arg Asp Val Val Ile Ala Tyr Leu Pro Val
          20              25              30

Phe Lys Lys Cys Phe Leu Gln Leu Leu Ser Thr Thr Val Leu Ser Leu
          35              40              45

Met Asn Thr Val Val Ser His Pro Asn Ser Cys Thr Glu Ile Ile Ser
          50              55              60

His Glu Ser Phe Ser Asn Ile Ser Asn Glu Ser Phe Ser Asn Leu Gly
          65              70              75              80

Ala

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<210> 6013

<211> 112

<212> PRT

<213> Homo sapiens

<220>

5278

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 <400> 6013
 Gln Leu Pro Val Gln Gly His Gly Leu Phe Gly Ala Gln Glu Val Leu
 1 5 10 15
 Asn His Val Leu Arg Asp Ile Glu Leu Phe Met Gly Lys Leu Glu Lys
 20 25 30
 Ala Gln Ala Lys Thr Ser Xaa Lys Lys Lys Phe Gly Lys Lys Asn Lys
 35 40 45
 Asp Gln Gly Gly Leu Thr Gln Ala Gln Tyr Ile Asp Cys Phe Gln Lys
 50 55 60
 Ile Lys His Ser Phe Asn Leu Leu Gly Arg Leu Ala Thr Trp Leu Lys
 65 70 75 80
 Glu Thr Ser Ala Pro Glu Leu Val His Ile Leu Phe Lys Xaa Leu Asn
 85 90 95
 Phe Xaa Leu Ala Arg Cys Pro Glu Ala Gly Xaa Ala Ala Gln Val Ile
 100 105 110

 <210> 6014
 <211> 95
 <212> PRT
 <213> Homo sapiens

5279

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<220>
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5280

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

<221> SITE

<222> (94)

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<400> 6014

Leu	Glu	Glu	Asp	Ile	Ser	Lys	Lys	Met	Asp	Lys	Asp	Glu	Glu	Ala	Leu
1				5				10						15	

Lys	Ala	Ala	Gln	Ala	Glu	Leu	Xaa	Glu	Ala	Arg	Arg	Gln	Trp	His	His
			20					25					30		

Leu	Gln	Val	Glu	Ile	Glu	Ser	Leu	His	Ala	Val	Glu	Arg	Gly	Leu	Glu
		35					40					45			

Asn	Ser	Leu	His	Ala	Xaa	Glu	Gln	His	Tyr	Gln	Met	Gln	Leu	Gln	Asp
		50				55					60				

Leu	Glu	Thr	Val	Xaa	Xaa	Gly	Leu	Glu	Lys	Glu	Leu	Gln	Xaa	Val	Lys
65					70					75					80

Xaa	Xaa	Xaa	Xaa	Lys	Ala	Ala	Phe	Lys	Xaa	Thr	Xaa	Xaa	Xaa	Phe	
				85					90					95	

<210> 6015

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6015

Leu	Arg	Ala	His	Thr	Val	Arg	His	Glu	Glu	Lys	Val	Pro	Cys	His	Val
1				5						10				15	

Cys	Gly	Lys	Met	Leu	Ser	Pro	Ala	Asp	Pro	Phe	Asn	Phe			
				20				25							

<210> 6016

<211> 53

5281

<212> PRT

<213> Homo sapiens

<400> 6016

Gln Gly Pro Thr Glu Val Lys Glu Gly Gly Trp Glu Cys Tyr Ser Leu
 1 5 10 15

Glu Trp Arg Cys Asp Phe Ser Arg Trp Lys Val Val Phe Leu Lys Gly
 20 25 30

Ile Gly Arg Ser Arg Phe Leu Leu Ile Gln Ile His Phe Pro Pro Thr
 35 40 45

Glu Gly Arg Asn Tyr
 50

<210> 6017

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6017

Pro Arg Val Val Phe His Leu Asn Leu His Pro Pro Pro Pro Gly Asp
 1 5 10 15

Tyr Phe Glu Ile Asn Leu Arg His Gln Gly Gln Ala Gln
 20 25

<210> 6018

<211> 78

<212> PRT

<213> Homo sapiens

<220>

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

5282

<220>

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<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6018

Ser Phe His Asn Thr Leu Ala Phe Pro Tyr Leu Tyr Gly Leu Tyr Leu
 1 5 10 15

Val Asn Leu Asn Lys Asn Leu Asp Phe Lys Lys Asn Trp Glu Arg Arg
 20 25 30

Xaa Val Ile Leu Leu Ala Phe Ser Ser Leu Asp Val Gly Ser His Asn
 35 40 45

Ser Asn Ile Glu Gly Lys Phe Cys Phe Cys Lys Ile Gly Leu Lys Leu
 50 55 60

Arg Ser Phe His Glu Arg Xaa Xaa Xaa Thr Cys Thr Ser Ala
 65 70 75

<210> 6019

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6019

Ser Ala Thr Cys Leu Phe Glu Val Leu Tyr Gln Ser Val Thr Arg Ala
 1 5 10 15

Phe Cys Val Cys Ala Ile Leu Cys Leu Ser Phe Lys Val Ala Pro Lys
 20 25 30

Val Ser His Leu Ala Phe Gln Gln Gly His Phe Leu Ser Phe Tyr Asn
 35 40 45

Met Gln Tyr Ile Cys Asn Asp Leu Ala Phe Phe
 50 55

<210> 6020

<211> 62

<212> PRT

<213> Homo sapiens

<400> 6020

Arg Ser His Ile Leu Leu Leu Ser Gly Cys Phe Ser Ile Leu Cys Pro

5283

1 5 10 15
 Phe Pro Gln Gln Gln Val Gly Pro Arg Leu Cys Thr Ala Leu Arg Cys
 20 25 30
 Arg Trp Tyr Arg Asp Asn Cys Leu Asn Ser Cys Ala Asp Phe Cys Asn
 35 40 45
 Ser Ala Val Glu Thr Lys Val Leu Glu Ser Val Leu Ser Met
 50 55 60

<210> 6021

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6021

Ser Gly Gly Ser Ser Val His Leu Ser Asp Pro Val Ala Pro Ser Ser
 1 5 10 15
 Ala Gly Leu Tyr Phe Glu Pro Glu Pro Ile Ser Ser Thr Pro Asn Tyr
 20 25 30
 Leu Gln Arg Gly Glu Phe Xaa Ser Cys Val Ser Cys Glu Glu Asn Ser
 35 40 45
 Ser Cys Leu Asp Gln Ile Phe Asp Ser Tyr Leu Gln Thr Glu Met His
 50 55 60
 Pro Glu Pro Leu Leu Asn Ser Thr Gln Ser Ala Pro His His Phe Pro
 65 70 75 80
 Asp Ser Phe Gln Ala Thr Pro Phe Cys Phe Asn Gln Ser Leu Ile Pro
 85 90 95
 Gly Ser Pro Ser Asn Ser Ser Ile Leu Ser Gly Ser Leu Asp Tyr Ser
 100 105 110
 Tyr Ser Pro Val Gln Leu Pro Ser Tyr Ala Pro Glu Asn Tyr Asn Ser
 115 120 125
 Pro Ala Ser Leu Asp Thr Arg Thr Cys Gly Tyr Pro Pro Glu Asp His
 130 135 140

5284

Ser Tyr Gln His Leu Ser Ser His Ala Gln Tyr Ser Cys Phe Ser Ser
 145 150 155 160

Ala Thr Thr Ser Ile Cys Tyr Cys Ala Ser Cys Glu Ala Glu Asp Leu
 165 170 175

Asp Ala Leu Gln Ala Ala Glu Tyr Phe Tyr Pro Ser Thr Asp Cys Val
 180 185 190

Asp Phe Ala Pro Ser Ala Ala Ala Thr Ser Asp Phe Tyr Lys Arg Glu
 195 200 205

Thr Asn Cys Asp Ile Cys Tyr Ser
 210 215

<210> 6022

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6022

Ser Lys Arg Arg Asp Lys Lys Arg Gly Gly Val Gly Ser Arg Lys Gln
 1 5 10 15

Ser Leu Asn Phe Ser Arg Thr Gln Leu Ser Leu Arg Xaa Asn Phe Leu
 20 25 30

Leu Ser Leu Trp Asp Ala Ile Val Ile Phe Asn
 35 40

<210> 6023

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5285

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6023

Pro	Pro	Cys	Xaa	Leu	Arg	Cys	Val	Xaa	Glu	Thr	Gly	Ser	Asn	Thr	Thr
1				5					10					15	

His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro
			20					25					30		

Gly	Ser	Thr	His	Ala	Ser	Glu	Ile	Ser	Trp	Pro	Tyr	Phe	Leu	Ser	Gly
			35				40					45			

Asn	Leu	Leu	Thr	Met	Met	Trp
	50					55

<210> 6024

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6024

Asp	Ala	Ile	Lys	Val	Lys	Glu	Tyr	Asn	Asn	Leu	Leu	Asn	Ala	Leu	Gln
1				5					10					15	

5286

Met Asp Ser Asp Glu Met Lys Lys Ile Leu Ala Glu Asn Ser Arg Lys
 20 25 30

Ile Xaa Val Leu Gln Val Asn Glu Lys Ser Xaa Ile Arg Gln Tyr Xaa
 35 40 45

Xaa Leu Val Glu Leu Glu Arg Gln Leu Xaa Lys Glu Asn Glu Lys Gln
 50 55 60

Lys Asn Glu Leu Leu Ser Met Glu Ala Glu Val Cys Glu Lys Ile Gly
 65 70 75 80

Cys Leu Gln

<210> 6025

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6025

His Val Xaa Asp Val Ile Leu Glu Val Asn Gly Tyr Pro Val Gly Gly
 1 5 10 15

Gln Asn Asp Leu Glu Arg Leu Gln Gln Leu Pro Glu Ala Glu Pro Pro
 20 25 30

Leu Cys Leu Lys Leu Ala Ala Arg Ser Leu Arg Gly Leu Glu Ala Trp
 35 40 45

Xaa Pro Pro Gly Ala Ala Glu Asp Trp Ala Leu Ala Ser Asp Leu Leu
 50 55 60

5287

<210> 6026

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6026

Gly	Ser	Ser	Ser	Leu	Ala	Gly	Trp	Leu	His	Xaa	Pro	Trp	Ala	Pro	Gln
1				5				10						15	

Ile	Ile	Lys	Ser	Thr	Phe	Ser	Val	Ser	Gly	Ile	Cys	Met	Thr	Ser	Leu
		20					25						30		

Glu	Val	Pro	Cys	Trp	Val	Val	Ile	Leu	Val	Ser	Asp	Gly	Thr	His	Leu
		35					40					45			

Asn	Leu	Lys	Tyr	Phe	Cys	Gln	Gly	Ser	Gly	Gly	Phe	Met	Ala	Cys	Ser
	50					55					60				

Ser	Pro	Ala	Leu	Leu	Gly	Arg	Leu	Gln	Arg	Cys	His	Leu	Ala	Leu	Ser
65					70				75					80	

Pro	Lys	Asn	Phe	Glu	Thr	Gln	Pro	Gly	Ala	Xaa	Arg	Gly	Leu	Lys	Xaa
				85					90					95	

Ser	Xaa	Phe	Pro	Phe	Lys	Asn	Tyr	Gln	Lys	Ile	Arg	Pro
			100					105				

<210> 6027

<211> 146

5288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6027

Arg	Asp	Glu	Asn	Thr	Met	Lys	Asn	Ile	Phe	Ser	Lys	Lys	Arg	Lys	Leu
1				5					10					15	

Glu	Val	Ala	Cys	Ser	Asp	Cys	Glu	Val	Glu	Val	Leu	Pro	Leu	Gly	Leu
			20					25					30		

Glu	Thr	His	Pro	Arg	Thr	Ala	Lys	Thr	Glu	Lys	Cys	Pro	Pro	Lys	Phe
		35					40					45			

Ser	Asn	Asn	Pro	Lys	Glu	Leu	Thr	Met	Glu	Thr	Lys	Tyr	Asp	Asn	Ile
	50					55					60				

Ser	Arg	Ile	Gln	Tyr	His	Ser	Val	Ile	Arg	Asp	Pro	Glu	Ser	Lys	Thr
65					70				75						80

Ala	Ile	Phe	Gln	His	Asn	Gly	Lys	Lys	Met	Glu	Phe	Val	Ser	Ser	Glu
				85					90					95	

Ser	Val	Thr	Xaa	Glu	Asp	Asn	Asp	Gly	Phe	Lys	Pro	Pro	Xaa	Glu	His
			100					105					110		

Leu	Asn	Ser	Lys	Thr	Lys	Gly	Ala	Gln	Lys	Asp	Ser	Ser	Ser	Asn	His
		115					120					125			

Val	Asp	Glu	Phe	Glu	Asp	Asn	Leu	Leu	Ile	Gly	Ile	Gln	Met	Trp	Xaa
	130					135					140				

Arg	Tyr
145	

5289

<210> 6028

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6028

Lys	Ala	Pro	Ala	Ser	Thr	Cys	Pro	Arg	Arg	Pro	Thr	Gly	Ala	Ala	Cys
1				5				10					15		

Cys	Val	Asn	Trp	Arg	Ser	Pro	Lys	Gly	Pro	Gly	Arg	Pro	Pro	Gly	Ser
		20						25					30		

Ala	Pro	Pro	Thr	Xaa	Ala	Gln	Arg	His	Pro	Leu	Cys	Ser	Arg	Asn	Gln
		35				40						45			

Pro	Pro	Thr	Leu	Pro	Arg	Thr	Arg	Pro	Gln	Ser	Pro	Ala	Ala	Pro	Ser
		50				55					60				

Thr	Pro	Thr	Cys	Gln	Pro	Ala	Gly	Ser	Ser	Ala	Leu	Trp	Ser	Pro	Ser
65				70						75					80

Ser	Thr	Cys	Leu	Pro	Ala	Pro	Ala	Trp	Val	Pro	Val	Pro	Pro	Ser	Pro
			85						90					95	

Arg	Thr	Trp	Thr	Met	Arg	Ala	Val	Ile	Lys	Pro	Arg	Leu	Lys	Met	Lys
			100					105					110		

Met	Arg	Met	Ser	Ser	Arg	Met	Lys	Thr	Arg	Met	Arg	Thr	Arg	Met	Arg
		115					120					125			

Met	Glu	Ser	Arg	Ala	Ser	Gln	Ser	Leu	Glu	Arg	Arg	Pro	Arg	Ser	Ala
	130					135					140				

Thr	Pro	Trp	Thr	Trp	Ala	Thr	Val	Thr	His	His	Glu	Val	Pro	Thr	Ser
145					150					155					160

His	Ser	Ile	Pro	Cys	Ser	Val	Arg	Val	Ala	Ala	His	His	Thr	Ser	Pro
				165					170					175	

Cys	Gln	Glu	Gln	Glu	Ser	Pro	Gln	Ala	Glu	Cys	Pro	Arg	Gly	Ala	Leu
			180					185					190		

5290

Leu Arg Leu Ser Arg Glu Pro Val Lys Glu Ile Glu Ile Lys Pro Val
 195 200 205

Leu Leu Gly His Arg Phe Ala Val Leu Lys Lys Lys Xaa Asn
 210 215 220

<210> 6029
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 6029
 Phe Val Glu Val Gly Met Ile Trp Gln Ser Leu Lys Phe Ile Leu Gly
 1 5 10 15

Arg Arg Trp Gln Lys Ser Gly Val Tyr Gln Val Met Arg Phe Leu Leu
 20 25 30

Thr His Gln Pro Asn Phe Cys Ser Phe Cys Thr Ser Glu Met Lys Lys
 35 40 45

Arg

<210> 6030
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6030
 Asp Thr Glu Ala Asp Val Leu Gly Leu Val Ala Ser Gly Thr Pro Asp
 1 5 10 15

Val Ala Arg Ala Met Thr His Thr Leu Arg His Leu Ala Ala Arg
 20 25 30

Pro Pro Thr Gln Ala Gln His Gln His Gln Cys Pro Xaa Cys Leu Leu
 35 40 45

Pro Leu Pro Gly Val Leu Thr Gly Trp Gly Trp Val Trp Gln Lys Ala
 50 55 60

5291

Glu Leu Ser Glu Ala Trp Gly Gln Glu
65 70

<210> 6031
<211> 55
<212> PRT
<213> Homo sapiens

<400> 6031
Asn Asn Phe Tyr Ile Leu Tyr Phe Pro Thr Lys Gln Asn Arg Asp Gln
1 5 10 15
Tyr Ser His Leu Leu Ser Asp His Phe Leu Pro Tyr Gln Gly His Asn
20 25 30
Ser Phe Arg Glu Lys Tyr Phe Ser Gly Val Thr Lys Arg Ile Ala Lys
35 40 45
Glu Glu Lys Ser Thr Gln Glu
50 55

<210> 6032
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

5292

<400> 6032

Val Phe Arg Glu His Arg Xaa Ser Val Ile Cys Leu Glu Leu Val Asn
 1 5 10 15

Arg Leu Val Tyr Xaa Gly Ser Xaa Asp Arg Thr Val Lys Cys Trp Leu
 20 25 30

Ala Asp Thr Gly Glu Cys Val Xaa Thr Phe Thr Ala His Arg Arg Asn
 35 40 45

Val Ser Ala Leu Lys Tyr His Ala Gly Thr Leu Phe Thr Gly Ser Gly
 50 55 60

Asp Ala Cys Ala Arg Ala Phe Asp Ala Gln Ser Gly Glu Leu Arg Arg
 65 70 75 80

Val Phe Arg Gly His Thr Phe Ile Ile Asn Cys Ile Gln Val His Gly
 85 90 95

Gln Val Leu Tyr Thr Ala Ser His Asp Gly Ala Leu Arg Leu Trp Asp
 100 105 110

Val Arg Gly Leu Arg Gly Ala Pro Arg Ser Pro Pro Pro Met Arg Ser
 115 120 125

Leu Ser Arg Leu Phe Ser Asn Lys Val Gly Cys Ala Val Ala Pro Leu
 130 135 140

Gln Pro Ala
 145

<210> 6033

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6033

Gly Asn Arg Ala Arg Leu His Leu Lys Lys Arg Lys Lys Asn Cys Asn
 1 5 10 15

Ser Tyr Thr Leu Ala Leu Leu Leu Tyr His Cys Val Ile Leu Lys Thr
 20 25 30

Thr Xaa Ile Tyr Tyr Thr Gly Thr Cys Leu Leu Ser Ile Ser Thr Thr

5293

35 40 45
 Lys Met Glu Ala Pro Thr Ala Ile Arg Leu Ile Ser Leu Pro Gly Pro
 50 55 60
 Ile Leu Ile Met Leu Leu
 65 70

 <210> 6034
 <211> 162
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 6034
 Glu His Leu Glu Arg Met Leu Gly Gln Ala Gly Glu Arg Arg Ala Asp
 1 5 10 15
 Val Tyr Val Gly Val Asp Val Phe Ala Arg Gly Asn Val Val Gly Gly
 20 25 30
 Arg Phe Asp Thr Asp Lys Ser Leu Glu Leu Ile Arg Lys His Gly Phe
 35 40 45
 Ser Val Ala Leu Phe Ala Pro Gly Trp Val Tyr Glu Cys Leu Glu Lys
 50 55 60
 Lys Asp Phe Phe Gln Asn Gln Asp Lys Phe Trp Gly Arg Leu Glu Arg
 65 70 75 80
 Tyr Leu Pro Thr His Ser Ile Cys Ser Leu Pro Phe Val Thr Ser Phe
 85 90 95
 Cys Leu Gly Met Gly Ala Arg Arg Val Cys Tyr Gly Gln Glu Glu Ala
 100 105 110
 Val Gly Pro Trp Tyr His Leu Ser Ala Gln Glu Ile Gln Pro Leu Phe
 115 120 125
 Gly Glu His Arg Leu Gly Xaa Asp Gly Arg Gly Trp Val Arg Thr His
 130 135 140
 Cys Cys Leu Glu Asp Ala Trp His Gly Gly Ser Ser Leu Leu Val Arg
 145 150 155 160

5294

Gly Val

<210> 6035
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6035
 Lys Tyr Tyr Thr Cys Glu Thr Asp Xaa Glu Asn Gln Cys Gly Xaa Gly
 1 5 10 15
 Val Val His Ile Asn Tyr Leu Xaa Ser Thr Xaa His Lys Ser Gln Ala
 20 25 30
 Cys Lys Ile Ser Gly Leu Ala Pro Glu Arg Gln Ile Pro His Asp Leu
 35 40 45

Thr Asp Met Xaa Xaa Leu Lys Lys Ser Asn Ser Glu Gln Arg Val Glu

5295

50

55

60

<210> 6036

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6036

Gly	Val	Leu	His	Phe	Cys	Gly	Lys	Ser	Pro	Phe	Trp	Arg	Ser	Ser	Thr
1				5					10					15	

Gly	Arg	Phe	Leu	Gly	Cys	Tyr	Asn	Gln	Asp	Phe	Ser	Thr	Thr	Thr	Leu
			20				25						30		

Leu	Val	Phe	Gly	Ala	Arg	Val	Ile	Leu	Cys	Xaa	Trp	Gly	Gly	Gln	Phe
		35					40					45			

Ile	Val	Gly	Cys	Phe	Thr	Ala	Ser	Ile	Pro	Leu	Ser	Tyr	Ser	Leu	Gln
	50					55					60				

Gly	Lys	Thr	Thr	Lys	Asn	Val	Pro	Arg	His	Xaa	Gln	Ile	Ser	Pro	Gly
65					70					75					80

Gly	Gln	Ser	Phe	Ile
				85

<210> 6037

<211> 214

<212> PRT

<213> Homo sapiens

<400> 6037

Leu	Ser	Leu	Arg	Asn	Ala	Lys	Tyr	Ser	Phe	Pro	Gln	Glu	Leu	Ile	Ser
1				5					10					15	

5296

Leu Phe Ser Met Thr Asp Leu Asn Asp Asn Ile Cys Lys Arg Tyr Ile
 20 25 30
 Lys Met Ile Thr Asn Ile Val Ile Leu Ser Leu Ile Ile Cys Ile Ser
 35 40 45
 Leu Ala Phe Trp Ile Ile Ser Met Thr Ala Ser Thr Tyr Tyr Gly Asn
 50 55 60
 Leu Arg Pro Ile Ser Pro Trp Arg Trp Leu Phe Ser Val Val Val Pro
 65 70 75 80
 Val Leu Ile Val Ser Asn Gly Leu Lys Lys Lys Ser Leu Asp His Ser
 85 90 95
 Gly Ala Leu Gly Gly Leu Val Val Gly Phe Ile Leu Thr Ile Ala Asn
 100 105 110
 Phe Ser Phe Phe Thr Ser Leu Leu Met Phe Phe Leu Ser Ser Ser Lys
 115 120 125
 Leu Thr Lys Trp Lys Gly Glu Val Lys Lys Arg Leu Asp Ser Glu Tyr
 130 135 140
 Lys Glu Gly Gly Gln Arg Asn Trp Val Gln Val Phe Cys Asn Gly Ala
 145 150 155 160
 Val Pro Thr Glu Leu Ala Leu Leu Tyr Met Ile Glu Asn Gly Pro Gly
 165 170 175
 Glu Ile Gln Ser Ile Phe Pro Ser Ser Thr Pro Leu Pro Gly Cys Val
 180 185 190
 Cys Leu Ser Trp Leu His Trp Pro Ala Leu Leu Glu Thr His Gly Leu
 195 200 205
 Gln Lys Leu Ala Gln Phe
 210

<210> 6038

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6038

Phe Phe Tyr Asn Thr Lys Val Thr Thr Trp Asn Phe Lys Asp Asn Val
 1 5 10 15

5297

Met Cys Val Cys Glu Ile Tyr Ile His Ile Tyr Ile Tyr Phe Leu Lys
 20 25 30

Glu Glu Lys Ile Pro Phe Cys Ser Thr Cys Ile Asn Ser Ser Phe Leu
 35 40 45

Ile Ala Val Lys Trp Gln Leu Leu Ile Asn Tyr Cys Asp Cys Phe Lys
 50 55 60

Ile
 65

<210> 6039
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 6039
 Lys Ala Gly Phe Arg Gln Ser Val His Phe Tyr Ser Lys Ile Gly Val
 1 5 10 15

Ser Val Tyr Ile Tyr Leu Lys Leu Asn Arg Ser Asp Phe Tyr Phe Leu
 20 25 30

Gly Tyr Ser Arg Ser Ile Leu Lys Leu Leu Phe Lys Ile Leu Lys Pro
 35 40 45

His Phe Lys Ser Cys Arg Pro
 50 55

<210> 6040
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6040
 Gln Leu Gln Ile Asn Arg Tyr Thr Pro Tyr Thr Ile Thr Asn Thr Phe

5298

1 5 10 15
 Tyr Thr Val His Ile Ser Val His Gln His Tyr Phe Ile Tyr Thr Leu
 20 25 30
 Phe Xaa Xaa Ile Asn Ile Phe Leu Asn Trp Asp Tyr Cys Pro Tyr Ala
 35 40 45
 Leu Tyr Phe Leu Phe Gln
 50

<210> 6041
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 6041
 Leu Leu Thr Thr Trp Val Lys Gly Lys Arg Gln Met Ala Ser Lys Pro
 1 5 10 15
 Leu Val Cys Leu Ser Ser Ser Gly Ser Glu Glu Ile Thr Ser Ala Phe
 20 25 30
 Leu Pro Glu Glu Phe Gly Val Phe Lys Gly Gly Trp Gly Gly Cys His
 35 40 45
 Phe Glu Asn Met Leu Leu Phe Leu Leu Ile Val Leu Arg Leu Ile Trp
 50 55 60
 Lys Gly Tyr Phe Phe Leu Ala Asn Thr Phe Trp Tyr Phe
 65 70 75

<210> 6042
 <211> 218
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (133)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (202)
 <223> Xaa equals any of the naturally occurring L-amino acids

5299

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6042

His	Ile	Glu	Met	Ala	Leu	Pro	Lys	Asp	Ala	Ile	Pro	Ser	Leu	Ser	Glu
1				5					10				15		

Cys	Gln	Cys	Gly	Ile	Cys	Met	Glu	Ile	Leu	Val	Glu	Pro	Val	Thr	Leu
			20					25					30		

Pro	Cys	Asn	His	Thr	Leu	Cys	Lys	Pro	Cys	Phe	Gln	Ser	Thr	Val	Glu
		35					40					45			

Lys	Ala	Ser	Leu	Cys	Cys	Pro	Phe	Cys	Arg	Arg	Arg	Val	Ser	Ser	Trp
	50					55					60				

Thr	Arg	Tyr	His	Thr	Arg	Arg	Asn	Ser	Leu	Val	Asn	Val	Glu	Leu	Trp
65					70					75					80

Thr	Ile	Ile	Gln	Lys	His	Tyr	Pro	Arg	Glu	Cys	Lys	Leu	Arg	Ala	Ser
				85					90					95	

Gly	Gln	Glu	Ser	Glu	Glu	Val	Ala	Asp	Asp	Tyr	Gln	Pro	Val	Arg	Leu
			100					105					110		

Leu	Ser	Lys	Pro	Gly	Glu	Leu	Arg	Arg	Glu	Tyr	Glu	Glu	Glu	Ile	Ser
		115					120					125			

Lys	Val	Ala	Ala	Xaa	Arg	Arg	Ala	Ser	Glu	Glu	Glu	Glu	Asn	Lys	Ala
	130					135						140			

Ser	Glu	Glu	Tyr	Ile	Gln	Arg	Leu	Leu	Ala	Glu	Glu	Glu	Glu	Glu	Glu
145					150					155					160

Lys	Arg	Gln	Ala	Glu	Lys	Arg	Arg	Arg	Ala	Met	Glu	Glu	Gln	Leu	Lys
				165					170					175	

Ser	Asp	Glu	Glu	Leu	Ala	Arg	Lys	Leu	Ser	Ile	Asp	Ile	Asn	Asn	Phe
		180						185					190		

Cys	Glu	Gly	Ser	Ile	Ser	Ala	Ser	Pro	Xaa	Glu	Phe	Gln	Lys	Asn	Xaa
		195					200					205			

Val	Pro	Val	Thr	Pro	Lys	Ser	Xaa	Lys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5300

210

215

<210> 6043

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6043

Trp Pro Gly Xaa Trp Thr Leu Ala Thr Glu Leu Leu His Arg Ala Trp
 1 5 10 15

Cys Pro Gln Ala Ser Arg Leu Gly Leu Glu Pro Gly Met Ser Pro Gly
 20 25 30

Ser Ala Leu Ala Leu Leu Trp Ser Leu Pro Ala Ser Asp Leu Gly Arg
 35 40 45

Ser Val Ile Ala Gly Leu Trp Pro His Thr Gly Val Leu Ile His Leu
 50 55 60

Glu Thr Ser Gln Ser Phe Leu Gln Gly Gln Leu Thr Lys Ser Ile Phe
 65 70 75 80

Pro Leu Cys Cys Thr Ser Leu Phe Cys Val Cys Val Val Thr Val Gly
 85 90 95

Gly Gly Arg Val Gly Ser Thr Phe Val Ala
 100 105

<210> 6044

<211> 67

<212> PRT

<213> Homo sapiens

<400> 6044

Ile Pro Ala Pro Leu Tyr His Leu Phe Leu Pro Leu Lys Gly Lys Thr
 1 5 10 15

Phe His Pro Ser Lys Leu Thr Ala Phe Ser Val Gly Phe Ser Tyr Ala
 20 25 30

Leu His Thr Leu Asp Leu Thr Cys Arg Tyr Ser Ser Pro Leu Ala Arg

5301

35 40 45
 Ser Ile Cys Met Trp Tyr Phe Ser Phe Pro Ser Val Asp Ile Ser Tyr
 50 55 60

Met Ile Phe
 65

<210> 6045

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6045

His Val Val Tyr Pro Arg Lys Leu Gly Arg Pro Leu Pro Ser Gln Ala
 1 5 10 15

Leu Arg Asn Asn Phe Ser Cys Leu Pro Met Leu Ile Ile Leu Val Phe
 20 25 30

Asn Ser Leu Ser Asp Leu Gln Asn Val Phe Ile Asn Ser Ser Cys Thr
 35 40 45

Trp Leu Asp Lys Leu Ser Cys Leu Cys Trp Xaa Xaa Asn Asp Tyr Leu
 50 55 60

Leu Ile Tyr Phe Gly Xaa Asn Ile Xaa Lys Asn Ile Asn Lys
 65 70 75

5302

<210> 6046

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6046

Pro Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
 1 5 10 15

Gly Ser Thr His Ala Ser Gly Arg Leu Ala Gly Arg Gly Ala Glu Ser
 20 25 30

Gly Leu Pro Arg Arg Gly Thr Ser Tyr Ser Val Gly Glu Ala Met Glu
 35 40 45

Glu Leu Leu Pro Asp Gly Gln Ile Trp Ala Asn Met Asp Pro Glu Glu
 50 55 60

Arg Met Leu Ala Ala Ala Thr Ala Phe Thr His Ile Cys Ala Gly Gln
 65 70 75 80

Gly Glu Gly Asp Val Arg Arg Glu Ala Gln Ser Ile Gln Tyr Asp Pro
 85 90 95

Tyr Ser Lys Ala Ser Xaa Ala Pro Gly Lys Arg Pro Ala Leu Pro Val
 100 105 110

Gln Leu Gln Tyr Pro His Val Glu Ser Asn Val Pro Ser Glu Thr Val
 115 120 125

Ser Glu Ala Ser Gln Arg Leu Arg Lys Pro Val Met Lys Arg Lys Val
 130 135 140

Leu Arg Arg Lys Pro Asp Gly Glu Val Leu Val Thr Asp Glu Ser Ile
 145 150 155 160

Ile Lys

<210> 6047

<211> 48

<212> PRT

5303

<213> Homo sapiens

<400> 6047

Val Leu Cys Val Cys Val Cys Val Cys Val Cys Ala His Met Cys Thr
1 5 10 15
Leu Val Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
20 25 30
Glu Arg Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Arg
35 40 45

<210> 6048

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6048

Asn Val Lys Lys His Ile Tyr Leu Tyr Ile Asp Phe Lys Gln Asn Thr
1 5 10 15
Leu Asn Thr Leu Leu Ser Val Arg Leu Met Xaa Ala Glu Glu Phe Tyr
20 25 30
Trp Val Glu Lys Thr Val Ile Tyr Ile Val Leu Asn Val Phe Ile Ile
35 40 45
Asn Gly Cys Ser Ile Ile Ser Ile Leu Phe Ser Ala Ser Asn Gly Met
50 55 60
Ile Ile Arg His Phe Ser Leu Leu Ile Ser
65 70

<210> 6049

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6049

5304

Phe Ile Lys Trp Val Ile Ile His Thr Asn Ala Lys Leu Ser Ile Tyr
 1 5 10 15

Tyr Ile Lys Ile Phe Asn Val Leu Ala Asn Phe Gly Lys Ala Lys Thr
 20 25 30

Thr Ser Val Asn Lys Asp Gly Phe Leu Val Ile Cys His
 35 40 45

<210> 6050

<211> 62

<212> PRT

<213> Homo sapiens

<400> 6050

Gly Glu Thr Ser Gly Leu Leu Cys Ser Gly Lys Thr Arg Asp Ala His
 1 5 10 15

Tyr Cys Glu Gly Pro Leu Lys Ser Gly Leu Leu Asn Gly Phe Leu Leu
 20 25 30

Ile Ser Trp Val His Ala Arg Met Met Gly Leu Asp Ala Val Gly Lys
 35 40 45

Arg Arg Cys Lys Asn Asn Lys Gln Tyr Ile Pro Ser Lys Lys
 50 55 60

<210> 6051

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6051

Gln Xaa Cys Lys Asn Ile Gln Lys Ser Arg Thr Ile Gly Leu Ser Phe
 1 5 10 15

Gln Ser Lys Ser Lys Xaa Ser Cys Phe His Phe Thr Arg Leu Trp Lys

5305

20 25 30
 Pro Met Asp Val Ile Val Lys Cys Ile Cys Ile Thr Leu Thr Phe Leu
 35 40 45
 Lys Cys Phe Glu Leu Ile Lys Asn Ser Thr Met
 50 55

<210> 6052
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 6052
 Asp Thr Phe Asn Pro Val Asn Phe Phe Ser Val Ser Asp Lys Val Lys
 1 5 10 15
 Phe Ser Ser Arg Val Gln Asn Thr Phe Ile Tyr Phe Phe Val Phe Leu
 20 25 30
 Lys Val Gln Arg Thr Thr Leu Ile Asn Leu Ser Phe Pro Ala Thr Trp
 35 40 45
 Asn Ser Thr
 50

<210> 6053
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6053
 Lys Leu Leu Ser Pro Leu Asn Gly Leu Gly Pro Leu Val Xaa Ser His
 1 5 10 15
 Cys Ser Ile Arg Val Ser Leu His Leu Trp Ala Leu Leu Ser Cys Asp
 20 25 30
 Ser Arg Asn Val Leu Leu Ile His Phe Met Val Asp His Pro Leu Ala
 35 40 45
 Leu Ser Thr Leu Pro Leu Phe Ser Ser Ala Pro His Arg Ile Ile Ser

5306

50 55 60
Ile Val Ser Val Ser Ser Leu Leu Ile Leu Tyr Ser Ala Cys Ser Asp
65 70 75 80
Leu Pro Val Asn Pro Leu Val Asn Leu
85

<210> 6054

<211> 92

<212> PRT

<213> Homo sapiens

<400> 6054

Ile Ser Gly Asp Lys His Leu Lys Lys Val Gln Leu Thr Leu Glu Gln
1 5 10 15
His Glu Ser Glu Leu Cys Val Gly Leu Leu Thr Gly Arg Phe Phe Phe
20 25 30
Ser Ile Ser Ile Leu Glu Asn Phe Leu Glu Ile Phe Gly Asn Leu Lys
35 40 45
Lys Leu Ala Asn Tyr Ser Leu Glu Ile Ser Glu Val Lys Lys Lys Leu
50 55 60
Val Cys His Arg Cys Ile Lys Leu Thr Met Ser Ile Leu Val His Phe
65 70 75 80
Ile Ile Tyr Tyr His Lys Ile Tyr Thr Ser Phe Phe
85 90

<210> 6055

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

5307

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6055
 Thr Glu Lys Glu Met Lys Ile Asp Gln Xaa Glu Lys Gly Leu Val Xaa
 1 5 10 15
 Lys Gly Xaa Lys Gly Arg Ser Leu Trp Asn Xaa Xaa Xaa Leu Lys Asn
 20 25 30
 Glu Val Thr Pro Asn Asn Arg Thr Gly Gln Ser Glu Met Thr Trp Leu
 35 40 45

<210> 6056
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6056
 Lys Ser Ser Ile Xaa Pro Pro Leu Ile Phe Pro Ala Thr Asp Ile Asp
 1 5 10 15
 Arg Ile Leu Arg Ala Gly Phe Thr Leu Gln Glu Ala Leu Gly Ala Leu
 20 25 30

5308

His Arg Val Gly Gly Asn Ala Asp Leu Ala Leu Leu Val Leu Leu Ala
 35 40 45

Lys Asn Ile Val Val Pro Thr
 50 55

<210> 6057

<211> 56

<212> PRT

<213> Homo sapiens

<400> 6057

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn His Leu Asn Pro Gly
 1 5 10 15

Gly Arg Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp
 20 25 30

Ala Thr Arg Ala Lys Leu His Leu Lys Lys Thr His Ile Phe Met Asn
 35 40 45

Ile Ser His Gln Gln Cys Arg Lys
 50 55

<210> 6058

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6058

Glu Glu Thr Trp Leu Leu Ala Leu Ile Asn Glu Glu Ser His Phe Pro
 1 5 10 15

Gln Ala Thr Asp Ser Thr Leu Leu Glu Lys Leu His Ser Gln His Ala
 20 25 30

Asn Asn His Phe Tyr Val Lys Pro Arg Val Ala Val Asn Asn Phe Gly
 35 40 45

Val Lys His Tyr Ala Gly Glu Val Gln Tyr Asp Val Arg Gly Ile Leu
 50 55 60

5309

Glu Lys Asn Arg Asp Thr Phe Arg Asp Asp Leu Leu Asn Leu Leu Arg
 65 70 75 80

Glu Ser Arg Phe Asp Phe Ile Tyr Asp Leu Phe Glu His Val Ser Lys
 85 90 95

Pro Xaa Gln Pro Gly Tyr Leu Glu Met Trp Glu Pro Thr Ser Ala Ala
 100 105 110

Tyr

<210> 6059

<211> 44

<212> PRT

<213> Homo sapiens

<400> 6059

Ala Phe Ile Tyr Leu Asn Phe Glu Phe Leu Asn Phe Leu Val Lys Asn
 1 5 10 15

Gln Asp Lys His Thr Ser Leu Gly Leu Cys Arg Val Arg Ile Lys Thr
 20 25 30

Ser Leu Ala Gly Asp Arg Asn Phe Ser Thr Pro Leu
 35 40

<210> 6060

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6060

Ala Asp Tyr Pro Thr Val Gly Thr Lys Leu Asp Ser Tyr Phe Val Gly
 1 5 10 15

Leu Ser Phe Leu Ile Leu Thr Ile Tyr His Pro Ile Leu Cys Pro Val
 20 25 30

Ile Phe Phe Lys Ser Leu Phe Asn Val Leu Gln His Cys Asp Cys Met
 35 40 45

Leu Ala Thr Leu Leu Leu Glu Cys Ser Phe Ser
 50 55

5310

<210> 6061

<211> 51

<212> PRT

<213> Homo sapiens

<400> 6061

Trp Val Asn Leu Arg Phe Gln Ser Gln Lys Leu Gln Val Val Val Thr
 1 5 10 15

Phe Leu Ser Ala Trp Ile Lys Pro Leu Lys Cys Gly Lys Cys Cys Gln
 20 25 30

Ser Arg Ala Ile Ser Leu Leu Ser Ser Met Arg Gly Ile Glu Thr Lys
 35 40 45

Gln Gln Phe
 50

<210> 6062

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6062

Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1 5 10 15

Xaa Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
 20 25 30

Arg Gly Gly Val Ser Ser Leu Lys Leu Arg Thr Ile Phe Xaa Val Ala
 35 40 45

5311

Lys Leu His Xaa Met Met Leu Pro Leu Leu Ser Val Leu Ser Gly Pro
 50 55 60

Leu Phe Thr Ser Thr Arg Tyr Pro Ser
 65 70

<210> 6063

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6063

Arg Gly Asn Arg Cys Leu Thr Lys Arg Glu Ala Ile Arg Gly Ile Asp
 1 5 10 15

Glu Ala Gln Leu Lys Ser Ser Leu Ala Ser Ser Ser Leu Ala Ser Val
 20 25 30

His Leu Lys Asn Lys Ser Trp Leu Thr Val Gly Ser Thr Arg Phe Glu
 35 40 45

Ile Arg Trp Leu Tyr Phe Xaa Phe Phe Gly Ile
 50 55

<210> 6064

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6064

Thr Xaa Met Phe Gln Gln His Arg Phe Ile Cys Asn His Lys Ser Asp
 1 5 10 15

Thr Phe Arg Met Thr Lys Pro Gln Lys Asn Ala Ile Phe Lys Ala Glu
 20 25 30

Thr Val Leu Phe Trp Ala Lys Trp Asn Pro Cys Phe Ser Asp Thr Val

5312

35 40 45
Arg Val Glu Ile Lys Asp Thr Glu Asn Leu Pro Leu Gly Asn His Asn
50 55 60

Tyr Leu
65

<210> 6065
<211> 46
<212> PRT
<213> Homo sapiens

<400> 6065
Lys Arg Gln Leu Glu Asn Val Met His Gly Val Phe Lys Lys Thr Lys
1 5 10 15

Cys Ser Phe Tyr Leu Thr Asp Asn Ser Phe Tyr Thr Leu Tyr Asn Lys
20 25 30

Ile Ser Thr Arg His Leu Val Gly Lys Val Lys Lys Lys Lys
35 40 45

<210> 6066
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6066
Arg Gly Leu Pro Ser Ile Pro Glu Asn Xaa Asn Leu Xaa Glu Tyr Phe
1 5 10 15

5313

Val Ala Val Asp Val Asn Asn Met Leu His Leu Tyr Ala Ser Met Leu
 20 25 30
 Tyr Glu Arg Arg Ile Leu Ile Ile Cys Ser Lys Leu Ser Thr Leu Thr
 35 40 45
 Ala Cys Ile His Gly Ser Ala Ala Met Leu Tyr Pro Met Tyr Trp Gln
 50 55 60
 His Val Tyr Ile Pro Val Leu Pro Pro His Leu Xaa Asp Tyr Cys Cys
 65 70 75 80
 Ala Pro Met Pro Tyr Leu Ile Gly Ile His Leu Ser Leu Met Glu Lys
 85 90 95
 Val Arg Asn Met Ala Leu Asp Asp Val Val Ile Leu Asn Val Asp Thr
 100 105 110
 Asn Thr Leu Glu Thr Pro Phe Asp Asp Leu Gln Ser Leu Pro Asn Asp
 115 120 125
 Val Glu Glu Ser Ile Val Ile Gln
 130 135

<210> 6067

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6067

His Phe Ala Ala Tyr Gly Asn Val Cys Val Leu Phe Ile Leu Met Asn
 1 5 10 15
 Cys Ala Met Thr His Lys Pro Lys Gln Cys Gln Leu Gln Leu Asn Leu
 20 25 30
 Gly Arg Asn Pro Trp Cys Phe Xaa Phe Phe Phe Asp Ala Gly Glu Arg
 35 40 45
 Leu His Phe Val Thr Asn Leu Leu Pro Asn Arg Lys Ile Tyr Phe Leu
 50 55 60
 Ser Asp Arg His His Thr Arg Cys Leu Leu
 65 70

5314

<210> 6068

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6068

Gly Lys Pro Gly Ala Pro Leu Gln Pro Trp Asp Asn Leu Arg Ile Pro
1 5 10 15
Pro Glu Ala Ser Ser Val Met Asp Ala Val Leu Arg Ile Thr Cys Cys
20 25 30
Pro Gly Val Thr Cys Phe His Leu Pro Ala His Gln Pro Ser Ala His
35 40 45
Leu Thr Cys Leu Pro Met Asp Trp Gly Leu Pro Gly Pro Pro Pro Tyr
50 55 60
Val Asn Leu His Phe Leu Phe Lys Asn Gln Glu Lys Lys Arg Phe Glu
65 70 75 80
Asp Pro Lys Ser Cys Gln
85

<210> 6069

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6069

Leu Glu Gly Arg Ala Leu Leu Gln Val Arg Val Gly Val Leu Ser Glu

5315

1 5 10 15
 Ser Cys Val Leu Gly Leu Val Ser Phe Pro Cys Pro Cys Ser Gly Ser
 20 25 30
 Val Arg Gln Ile Gly Arg Leu Cys Ser Arg Pro Gln Glu Cys Xaa Ser
 35 40 45
 Pro Xaa Leu Ala Gln Tyr Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe
 50 55 60
 Asp Val Pro Asp Arg Asn Arg Ala Arg Gly Thr Xaa Lys Thr Thr Val
 65 70 75 80
 Gly Ser

<210> 6070
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 6070
 Ser Lys Glu Arg Val Asp Gly Leu Lys Arg Leu Ala Ser Val Ser Val
 1 5 10 15
 Ala Gly Ser His Leu Ala Ser Asn Trp Lys Gln Asn Phe Trp Gly Val
 20 25 30
 Leu Phe Cys Ile Arg Val Cys Phe Met Leu Ser Lys Thr Tyr Phe Arg
 35 40 45
 Ser Lys
 50

<210> 6071
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6071
 Trp Lys Leu Val Gly Pro Pro Gly Leu Thr Gly Ile Arg Thr Xaa Gly

5316

1	5	10	15
Lys Asn Phe Val Arg Pro Gln Lys His Cys Thr Val Asn Ile Leu Glu			
20	25	30	
Lys Val Cys Gln Thr Gly Ile Asn Asp Ser Met Ile Phe Asn Asp Cys			
35	40	45	
Lys Leu Arg			
50			

<210> 6072

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6072

Lys Ser Met Gly Glu Glu Asn Val Lys Met Leu Ser Asp Ile Arg Cys
1 5 10 15

Met Lys Ser His Asn Ile Lys Ala Ile Ser Tyr Phe Xaa Arg Gly Ile
20 25 30

Phe Leu Leu Pro Leu Leu Val Leu Asp Arg Phe Tyr Lys Met Xaa Asn
35 40 45

Lys Ile Trp Xaa
50

<210> 6073

<211> 102

<212> PRT

5317

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6073

Glu	Ser	Ser	Ile	Cys	Cys	Ser	Phe	Leu	Gln	Leu	Tyr	Phe	Cys	Ser	Ile
1				5					10					15	

Ser	Trp	Phe	His	Ser	Leu	Leu	Phe	Trp	Asp	Phe	Val	Phe	Arg	Ser	Ala
			20					25					30		

Tyr	Phe	Leu	Tyr	Ile	Cys	Met	Gln	Met	Lys	Glu	Gly	Ser	Leu	Tyr	Trp
		35					40					45			

Cys	Xaa	Phe	Ser	Leu	Gln	Leu	Leu	Val	Xaa	Gly	Asp	Leu	Leu	Glu	Lys
	50					55					60				

Ile	Leu	Pro	Leu	Lys	Gly	Glu	Asn	Arg	Pro	Leu	Cys	Val	Tyr	Leu	Tyr
65					70					75				80	

Arg	Asp	Val	Tyr	Met	Gly	Cys	Gly	Gly	Thr	Leu	Leu	Asn	Val	Asn	Leu
				85					90					95	

Pro	Cys	Gln	Trp	Lys	Asp
				100	

<210> 6074

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6074

Leu	Phe	Gly	Ala	Val	Arg	Lys	Lys	Lys	Lys	Lys	Lys	Ile	Ala	Ile	Ser
1				5					10					15	

Ser	Cys	Val	His	Asn	Ser	Arg	Tyr	Asn	Ile	Gln	Ser	Leu	Glu	Gly	Pro
			20					25					30		

Phe	Trp	Ala	Leu	Asp
			35	

5318

<210> 6075

<211> 37

<212> PRT

<213> Homo sapiens

<400> 6075

Tyr	Ser	Phe	Asp	Asn	Thr	Arg	Val	Ser	Glu	Ile	Pro	Asp	Thr	Ser	Val
1				5					10					15	

Gln	Asn	Ala	Met	Asp	Leu	Leu	Phe	Tyr	Ser	Cys	Gln	Pro	Phe	Ser	Ile
			20					25						30	

Pro	Ile	Gln	Lys	Arg
			35	

<210> 6076

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6076

Thr	Leu	Ser	Asp	Val	Gly	Cys	Pro	His	Gln	Asn	Ile	Cys	Thr	Ser	Cys
1				5					10					15	

Phe	Cys	Pro	Thr	Leu	Glu	Ala	Ala	Glu	Lys	Lys	Gly	Lys	Gln	Gly	Ser
			20					25					30		

Arg	Asn	Leu	Cys	Tyr	Val	Phe	Ser	Pro	Leu	Tyr	Leu	Phe	Leu	Trp	Xaa
		35					40					45			

Val	Val	Gln	Glu	Ile	Leu	Phe	Ser	Cys	Ser	Lys	Leu	Ile	Lys	Arg	Ser
		50				55					60				

Asn	Ile	Arg	Asn	Tyr	Asp	Asn	Ser	Leu
65						70		

<210> 6077

<211> 49

<212> PRT

<213> Homo sapiens

5319

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6077

Tyr	Arg	Gly	Arg	Glu	Ile	Ser	Lys	Val	Phe	Thr	Ser	Ser	Leu	Lys	Gly
1				5				10					15		

Val	Gly	Ser	Asn	Ser	Ser	Ser	Pro	Cys	Tyr	Phe	Gly	Val	Ser	His	Tyr
			20				25					30			

Ser	Leu	Thr	His	Gln	Lys	Ile	His	Ser	Phe	Lys	Cys	Leu	Xaa	Val	Leu
		35				40						45			

Ser

<210> 6078

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

5320

<400> 6078

Pro Asn Ala Asp Gln Lys Tyr Ser Thr Asp Lys Met Xaa Glu Pro Xaa
 1 5 10 15

Val Tyr Val Lys Ser Leu Tyr Thr Xaa Xaa Gly Pro Asp Xaa Tyr Phe
 20 25 30

Leu Leu Leu Ile Gly Gly
 35

<210> 6079

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6079

Ala Phe Ser Ser Ser Glu Asp Asn Lys Xaa Gly Lys Arg Xaa Arg Thr
 1 5 10 15

Asn Ser Arg Ser Thr Pro Thr Thr Pro Gln Gly Lys Pro Glu Thr Thr
 20 25 30

Phe Leu Asp Gln Gly Cys Ser Ser Pro Val Leu Ile Asp Cys Pro His
 35 40 45

Pro Asn Cys Asn Lys Lys Tyr Lys His Ile Asn Gly Leu Arg Tyr His
 50 55 60

Gln Ala His Ala His Leu Asp Pro Glu Asn Lys Leu Glu Phe Glu Pro

5321

65		70		75		80
Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu Glu Gly Leu Ser Asn Val						
	85		90		95	
Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser Val Ser Ala Tyr Asp Gln						
	100		105		110	
Leu Lys Ala Pro Ala Xaa Pro Gly Ala Gly Asn Pro Pro Gly Thr Pro						
	115		120		125	
Lys Gly Lys Arg Glu Leu Met Ser Asn Gly Pro Gly Ser Ile Ile Gly						
	130		135		140	
Ala Lys Xaa Gly Lys Asn Ser Gly Lys Lys Lys Gly Leu Asn Asn Glu						
	145		150		155	160
Leu Asn Asn Leu Pro Val Ile Ser Asn Met Thr Ala Ala Leu Asp Ser						
	165		170		175	
Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala Glu Met Pro Lys Leu Glu						
	180		185		190	
Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu Gly Asp Lys Glu Lys Gly						
	195		200		205	
Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys Asn Leu Ser Lys Leu Lys						
	210		215		220	
Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala Pro Thr Pro Pro Gln Leu						
	225		230		235	240
Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr Thr Thr Thr Gly Thr Ile						
	245		250		255	
Pro Gly Leu Pro Ser Leu Thr Thr Thr Val Val Gln Ala Thr Pro Lys						
	260		265		270	
Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys Pro Thr Ile Met Gly Glu						
	275		280		285	
Pro Ile Thr Val Asn Pro Ala Leu Val Ser Leu Lys Asp Lys Lys						
	290		295		300	

<210> 6080

<211> 61

<212> PRT

<213> Homo sapiens

5322

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6080

Arg	Leu	Ser	Gln	His	Pro	Tyr	His	Thr	Val	Gln	Lys	Ser	Glu	Leu	Gln
1				5					10					15	

Arg	Leu	Cys	Ser	Val	Ser	Trp	Ser	Thr	Ser	Lys	Phe	Val	Val	Arg	Lys
			20					25						30	

Val	Arg	Cys	Arg	Asn	Leu	Arg	Leu	Gln	Arg	Leu	Cys	Ser	Val	Ser	Trp
		35					40					45			

Xaa	Thr	Ser	Thr	Phe	Phe	Val	Val	Asn	Ile	Gln	Ser	His
	50						55				60	

<210> 6081

<211> 77

<212> PRT

<213> Homo sapiens

<400> 6081

Pro	Asn	Pro	Ala	Leu	Thr	Ala	Pro	Gln	Arg	Ile	Pro	Val	Ala	Ala	Gln
1				5					10					15	

Pro	Pro	Ala	Pro	Pro	Ser	Pro	Glu	Leu	Arg	Arg	Glu	Pro	Gln	Gly	Gly
			20					25					30		

Ala	Met	Arg	Thr	Gly	Val	Trp	Trp	Ser	Thr	Tyr	Gly	Ser	Trp	Pro	Ala
		35					40					45			

Ser	Gly	Ala	Val	Ala	Gly	Arg	Pro	Leu	Ala	Phe	Ser	Asp	Ala	Gly	Pro
	50					55					60				

His	Val	His	Tyr	Gly	Trp	Gly	Asp	Pro	Ile	Arg	Leu	Arg
	65				70					75		

<210> 6082

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

5323

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6082

Thr	Ala	Gly	Pro	Ser	His	Pro	Trp	Ile	Ser	Ser	Cys	Thr	Thr	Leu	Lys
1				5				10						15	

Leu	Glu	Gln	His	Gln	Xaa	Leu	Pro	Arg	Ser	Pro	Pro	Ala	Gln	Pro	Ser
			20					25					30		

Xaa	Gly	Asn	Val	Ser	Ser	Ser	Pro	Gly	Leu	Gln	Leu
		35					40				

<210> 6083

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6083

Ala	Glu	Gly	His	Glu	Arg	Glu	Arg	Ser	Xaa	Glu	Ser	Gly	Glu	Glu	Asp
1				5					10					15	

Ser	Ser	Leu	Thr	Asp	Glu	Pro	Arg	Arg	Ala	Cys	Leu	Ser	His	Pro	Ser
			20					25					30		

Leu	Cys	Gln	Leu	Leu	Gly	Gly	Gln	Xaa	Pro	Ala	Leu	Arg	Asn	Ser	Pro
		35					40					45			

Val	Leu	Gly	Glu
			50

<210> 6084

<211> 78

5324

<212> PRT

<213> Homo sapiens

<400> 6084

Leu Val Leu His Tyr Phe Pro Arg Glu Phe Leu Gln Val Asn Val His
 1 5 10 15

Pro Phe Asp Leu Glu Ala Asp Ser Gln Phe Cys Leu Phe Gly Lys Ser
 20 25 30

Ala Ser Glu Leu Asn Phe Leu Val Cys Lys Met Gly Leu Arg Lys Cys
 35 40 45

Gly Leu Leu Phe Gln Arg Leu Leu Leu Gly Trp Asn Glu Ile Met Cys
 50 55 60

Val Thr Lys Ala Leu Glu Thr Phe Trp Asn Leu Lys Ala Ile
 65 70 75

<210> 6085

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6085

Ala Leu Ser Val Cys Asp Leu Leu Lys Asn Lys Phe Phe Val Lys Glu
 1 5 10 15

Asn Thr Ser Leu Lys Asn Glu Lys Ala Ile Leu Ser Leu Ile Asn Leu
 20 25 30

Ile Gln Asp Pro Ser Ile Ile Asn Leu Thr Val Leu Xaa Phe Thr Glu
 35 40 45

Ile Ser Xaa Asn Gln Ser Gln Lys Ile Pro Pro Cys Thr Asn Leu Leu
 50 55 60

Pro Leu His
 65

5325

<210> 6086

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6086

Leu	Arg	Ile	Met	Thr	Pro	Leu	Val	Ser	Cys	Gly	Met	Gly	Arg	Ile	Phe
1				5					10					15	

Tyr	Phe	Phe	Cys	Thr	Phe	Thr	Trp	Arg	Leu	Phe	Leu	Leu	Arg	Xaa	Phe
			20				25						30		

Ile	Met	Gly	Phe	Lys	Ala	Leu	His	Leu	Pro	Asn	Xaa	Gly	Lys	Cys	Xaa
		35				40						45			

Lys	Tyr	Cys	Ile	Phe	Tyr	Xaa	Phe	Gly	Pro	Lys	Gly	Tyr
	50					55					60	

<210> 6087

<211> 50

<212> PRT

<213> Homo sapiens

<400> 6087

Asn	Glu	Glu	Cys	Asn	Pro	Phe	Tyr	Lys	Met	Tyr	Thr	Leu	Cys	Tyr	Leu
1				5					10					15	

5326

Leu Leu Asn Phe Gly Leu Val Ile Pro Thr Asp Ala Lys Phe Phe Leu
 20 25 30

Gln Ser Thr Glu Ile Ile Gln Ile Phe Leu His Cys Gln Gln Asp Glu
 35 40 45

Ile Val
 50

<210> 6088
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 6088
 Trp Lys Lys Tyr Phe Lys Thr Phe Ile Asn Gly Lys Val Val Trp Gly
 1 5 10 15

Ser Trp Phe Asp His Val Lys Gly Trp Trp Glu Met Lys Asp Arg His
 20 25 30

Gln Ile Leu Phe Leu Phe Tyr Glu Asp Ile Lys Arg Asp Pro Lys His
 35 40 45

Glu Ile Arg Lys Val Met Gln Phe Met Gly Lys Lys Val Asp Glu Thr
 50 55 60

Val Leu Asp Lys Ile Val Gln Glu Thr Ser Phe Glu Lys Met Lys Glu
 65 70 75 80

Asn Pro Met Thr Asn Arg Ser Thr Val Ser Lys Ser Ile Leu Asp Gln
 85 90 95

Ser Ile Ser Ser Phe Met Arg Lys Gly Thr Val Gly Asp Trp Lys Asn
 100 105 110

His Phe Thr Val Ala Gln Asn Glu Arg Phe Asp Glu Ile Tyr Arg Arg
 115 120 125

Lys Met Glu Gly Thr Ser Ile Asn Phe Cys Met Glu Leu
 130 135 140

<210> 6089
 <211> 65
 <212> PRT
 <213> Homo sapiens

5327

<400> 6089

Asn Lys His Leu Glu Ala Ile Phe Gly Leu Ile Lys Ile Val Leu Gly
 1 5 10 15
 Arg Ala Trp Trp Leu Thr Pro Ala Ile Pro Ala Leu Trp Glu Ala Glu
 20 25 30
 Asp Ser Gly Phe Leu Glu Leu Arg Ser Trp Glu Thr Ser Leu Gly Asn
 35 40 45
 Met Val Ile Pro Val Cys Leu Phe Lys Ile Lys Lys Ile Asn Glu Val
 50 55 60
 Met
 65

<210> 6090

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6090

Val Ala Lys Gly Leu Leu Ser His Leu Cys Pro Pro Xaa Ile Leu Lys
 1 5 10 15
 Ala Arg Ser Leu Glu Phe Glu Leu Cys Pro His Met Pro Pro Arg His
 20 25 30
 Gln Gln Ser Lys Met Lys Ser Leu His Cys Leu Ser Val Asp Pro Thr
 35 40 45
 Leu Ser Pro His Trp Arg Gly Arg Gly Gly Gly Leu Arg Met Ser Ser
 50 55 60
 Ser Cys Pro Gly Cys Asn Met Val Lys Asp Glu Arg Lys Glu Met Leu
 65 70 75 80
 Gly Ala Ser Leu His
 85

<210> 6091

5328

<211> 90
 <212> PRT
 <213> Homo sapiens

<400> 6091
 Gln Glu Pro Ser Ser Arg Val Ser Cys Phe Lys Ala Pro Tyr Pro Phe
 1 5 10 15
 Leu Arg Val Thr Asn Thr Cys Ala Arg Ser Leu Pro Phe Pro Ser Ser
 20 25 30
 Pro Cys Ile Trp Leu Ile Thr Gly Gln Leu Pro Ala Ser Leu Gln Phe
 35 40 45
 Gly Arg Trp Val Gly Asn Asp His His Ser Pro Arg Ser Pro Asp Gly
 50 55 60
 Leu Val Phe Arg Ala Leu His Arg His Leu Gln Gln Ala Pro Ala Arg
 65 70 75 80
 Pro Glu Val Ile Leu Arg Arg Asp Gly Ser
 85 90

<210> 6092
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 6092
 Leu Gln Leu Trp Ile Ala Tyr Phe Glu Lys Gly Glu Leu Gln Ile Leu
 1 5 10 15
 Pro Lys Asp Gly Glu Lys His Ile Lys Lys Ile Pro Thr Phe Arg Asn
 20 25 30
 Ser Phe Gln Gln Leu Leu Leu Glu Ile Phe Lys Leu Ile
 35 40 45

<210> 6093
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 6093
 Ile Ser Asp Lys Phe Pro Gly Asn Ala Asp Phe Thr Val Gln Gly Pro
 1 5 10 15

5329

His Phe Gly Asn His Thr Asn Arg Asn Leu Met Gln Thr Gln Gly Thr
20 25 30

Tyr Gln Lys Ile Phe Asn Gln Val Ile Leu His Asp Lys Gly Gln Gln
35 40 45

Cys

<210> 6094

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6094

Thr Gly Phe His His Val Ser Gln Ala Ser Leu Glu Leu Leu Thr Ser
1 5 10 15

Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ile
20 25 30

Ser His Arg Ala Trp Pro Asn Asn Trp Asn Ile Phe Ile Met Lys Met
35 40 45

Ser Ser Ala Leu Pro Lys Glu Thr Thr Asn
50 55

<210> 6095

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6095

Cys Lys His Cys Ile Ser Tyr Val Glu Met Val Lys Asp Asp Tyr Glu
1 5 10 15

Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser Gln
20 25 30

Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly Ala Arg
35 40 45

Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu Asn Tyr
50 55 60

Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn Pro Asp
65 70 75 80

5330

Asp Pro Glu Asp Phe Pro Ala Leu Ser
85

<210> 6096

<211> 32

<212> PRT

<213> Homo sapiens

<400> 6096

Lys Leu Lys Met Leu Ala Glu His Phe Val Val Leu Gln Ala Leu Leu
1 5 10 15

Ile Phe His Cys Ser Thr Cys Cys Trp Gln Ser Asn Phe Ser Glu Leu
20 25 30

<210> 6097

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6097

Ala Glu His Cys Ser Pro Ile Leu Val Leu Ile Trp Lys Phe Leu Gly
1 5 10 15

His Tyr Ala Asp Lys Lys Thr Arg Thr Pro Gly Ala Arg Lys Thr Cys
20 25 30

Cys Lys Ser Leu Val Cys Ser Tyr Glu Cys Pro Ser Thr Leu Glu Glu
35 40 45

Ala Leu Asp Ser Pro Val Pro Ser Phe Leu Gly Ala Arg Val Pro Xaa
50 55 60

Cys
65

5331

<210> 6098

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6098

Phe Tyr Cys Tyr Ser Glu Glu Ser Gln Leu Thr Asp Leu Asp Asp Phe
1 5 10 15

Lys Asp Ala Val Gln Met Arg Glu Gly Cys Lys Tyr Cys Phe Ser Ile
20 25 30

Xaa Glu Leu Thr Val Ala Lys Val Gly Tyr Ser Ile Glu Ser Leu
35 40 45

<210> 6099

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6099

Ile Arg His Glu Glu Thr Ser Ile Ala Leu Gln Asp Asn Tyr Glu Ile
1 5 10 15

Arg Tyr Thr Ala Ile Ser Val Ile Lys Asn Leu Leu Ile Lys His Ala
20 25 30

Phe Asp Thr Arg Tyr Gln His Lys Asn Gln Gln Ala Lys Ile Ala Gln
35 40 45

Leu Tyr Leu Pro Phe Val Gly Leu Leu Leu Glu Asn Ile Gln Arg Leu
50 55 60

Ala Gly Arg Asp Thr Leu Tyr Ser Cys Ala Ala Met Pro Asn Ser Ala

5332

65				70				75				80			
Ser	Arg	Asp	Glu	Phe	Pro	Cys	Gly	Phe	Thr	Ser	Pro	Ala	Asn	Arg	Gly
				85					90					95	
Ser	Leu	Ser	Thr	Asp	Lys	Asp	Thr	Ala	Tyr	Gly	Ser	Phe	Gln	Asn	Gly
				100					105					110	
His	Gly	Ile	Lys	Arg	Glu	Asp	Ser	Arg	Gly	Ser	Leu	Phe	Pro	Glu	Gly
				115					120					125	
Ala	Thr	Gly	Phe	Pro	Asp	Gln	Gly	Asn	Thr	Gly	Glu	Asn	Thr	Arg	Gln
				130					135					140	
Asn	Ser	Thr	Arg	Xaa	Ile	Val	Ser	Xaa	Tyr	Asn	Arg	Leu	Asp	Gln	Tyr
145				150				155				160			
Glu	Ile	Thr	Thr	Ser											
				165											

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<210> 6100
<211> 61
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 6100
Gln Arg Gly Arg Trp Lys Gln Cys Ser Trp Lys Leu Leu Leu Ser Pro
 1               5               10               15
Leu Ser His His Ser Arg His Leu Leu Gln Ala Gly Arg His Val Ser
      20               25               30
Val Arg Phe Leu Pro Gly Asp Ile Arg Ser Pro Xaa Ile Gln Ile Lys
      35               40               45
Cys Asn Ile Leu Gln Thr Ala Leu Leu Arg Glu Ile Ser
      50               55               60

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<210> 6101
<211> 156
<212> PRT
<213> Homo sapiens
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5333

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6101

Trp	Ile	Pro	Arg	Ala	Ser	Gly	Ile	Arg	His	Glu	His	Leu	Arg	Ser	His
1				5				10						15	

Thr	Gln	Glu	Lys	Val	Val	Ala	Cys	Pro	Thr	Cys	Gly	Gly	Met	Phe	Ala
			20					25					30		

Asn	Asn	Thr	Lys	Phe	Leu	Asp	His	Ile	Arg	Arg	Gln	Thr	Ser	Leu	Asp
		35					40					45			

Gln	Gln	His	Phe	Gln	Cys	Ser	His	Cys	Ser	Lys	Arg	Phe	Ala	Thr	Glu
	50					55					60				

Arg	Leu	Leu	Arg	Asp	His	Met	Arg	Asn	His	Val	Asn	His	Tyr	Lys	Cys
65					70					75					80

Pro	Leu	Cys	Asp	Met	Thr	Cys	Pro	Leu	Pro	Ser	Xaa	Leu	Arg	Asn	His
				85					90					95	

Met	Arg	Phe	Arg	His	Ser	Glu	Asp	Arg	Pro	Phe	Lys	Cys	Xaa	Cys	Cys
			100					105					110		

Asp	Tyr	Ser	Cys	Lys	Asn	Leu	Ile	Asp	Leu	Gln	Lys	His	Leu	Asp	Thr
		115					120					125			

His	Ser	Glu	Glu	Pro	Ala	Tyr	Arg	Cys	Asp	Phe	Glu	Asn	Cys	Thr	Ser
		130					135				140				

Val	Xaa	Asp	Pro	Leu	Leu	Tyr	Gln	Val	Pro	Leu	Pro
145					150					155	

<210> 6102

<211> 65

5334

<212> PRT

<213> Homo sapiens

<400> 6102

Phe Cys Leu Leu Leu Ala Gly Glu Glu Ala Met Ser Trp Tyr Ser Gln
 1 5 10 15

Trp Ser Gln Asp Pro Glu Cys Val Ala Lys Pro Tyr Thr Ala Phe His
 20 25 30

Gly Leu Phe Leu Gly Ala Arg Val Gly Gly Asp Met Val Leu Gly Ser
 35 40 45

Asn Leu Pro Cys Asn Arg Trp Arg Ala Val Phe Ser Met Ala Pro Ala
 50 55 60

Val
 65

<210> 6103

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6103

Leu Gln Val Thr Leu Ser Ser Trp Pro Xaa Ile Ala Pro Arg Leu Phe
 1 5 10 15

Leu Pro His Trp Gly Gln Ser Phe Pro Trp Thr Lys Glu Arg Xaa Leu
 20 25 30

Gln Pro Phe Phe Lys Ser Leu Gly Pro Gly Pro Trp His Gln His His
 35 40 45

5335

Xaa Ser Leu Tyr Ser Ile His Gln Lys His Leu Lys Pro Thr Gln Ile
 50 55 60

Cys Ser Met Gly Ser Ile His Val
 65 70

<210> 6104

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6104

Val Tyr Lys Tyr Leu Phe Phe Lys Arg Arg Cys Cys Ala Cys Glu Thr
 1 5 10 15

Ile Leu Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Val Thr Ala
 20 25 30

Lys Asp Arg Glu Pro Phe His Phe Gly His Thr Gly Leu Leu Ser Arg
 35 40 45

Ser His Phe Ser Ser Trp Leu Leu Lys Ile Thr Ala Ser Pro Val Pro
 50 55 60

Ser Trp Arg Ser Ser Arg Gly Arg Ala Asp Phe Ser Pro Thr Gly Gly
 65 70 75 80

Thr Met Trp Gly Ser Glu Gly Trp Glu Gly Asp Phe Pro Leu Glu Trp
 85 90 95

Trp Ser Cys Trp Gly Leu Ile Ser Arg Asp Pro Lys Gly Gly Leu Cys
 100 105 110

Arg Arg Phe His Ile Gly Gly Ala Leu Ser Leu Ala Ala Val Arg Val
 115 120 125

Gly Pro Gly Cys Gly Val Gln Thr Ala
 130 135

<210> 6105

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6105

Gly Asn Ser Arg Val Asp Pro Arg Val Arg Arg Asn Val Thr Arg Val
 1 5 10 15

5336

Arg Gly Ser Tyr Leu Tyr Ile Gly Phe Pro Ala Glu Asn Arg Pro Leu
 20 25 30

Leu Tyr Arg Phe Trp Val His Asn Leu Ala Leu Leu Val Asn Pro Arg
 35 40 45

Asp Leu Ser Asp Pro Pro Pro Pro Val Phe Phe Leu Phe Leu Phe Leu
 50 55 60

Phe
 65

<210> 6106
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 6106
 Tyr Tyr Lys Ser Tyr Cys Thr His Phe Val Leu Glu Lys Asn Thr Glu
 1 5 10 15

Ala Val Ala Gln Thr Leu Phe Asn Ile Arg Glu Phe Ile Leu Glu Lys
 20 25 30

Asn Pro Ala Asn Val Met Asn Leu Glu Lys His Phe Phe Ser Lys Thr
 35 40 45

Thr Ala
 50

<210> 6107
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6107

5337

Val Asp Arg Ala Ile Ser Ile Thr Leu Arg Pro Leu Trp Val Ile Gly
 1 5 10 15

Ala Asp Lys Val Pro Cys Ile Ala Asp Glu Ile Ser Pro Ser Trp Thr
 20 25 30

Phe Pro Arg Asn Gly Pro Gly Val Ser Ser Asn Leu Ser Xaa Xaa Ile
 35 40 45

Thr Cys Leu Glu Ile Thr Leu Glu Tyr Val Ser Tyr Lys Ala Arg Ser
 50 55 60

His Gly Asn
 65

<210> 6108
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 6108
 Thr Arg Glu Arg Arg Gly Gly Asn Met Lys Val Asn Leu Asn Asn Phe
 1 5 10 15

Cys Asn Thr Ser Tyr Leu Gln Thr Ile Gly Phe Met Leu Leu His Ser
 20 25 30

Arg Cys Asp Leu Ser Tyr Val Ser Asp Arg Phe Tyr Glu Leu Phe
 35 40 45

<210> 6109
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 6109
 Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys
 1 5 10 15

Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys
 20 25 30

Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys
 35 40 45

Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr
 50 55 60

5338

Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala
 65 70 75 80

Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys
 85 90 95

Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu
 100 105 110

Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu
 115 120

<210> 6110
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 6110
 Val Asp Phe Leu Phe Ala Ile Asn Gln Ala Lys Val Asn Ala Ile Ile
 1 5 10 15

Ser Arg Phe Met Val Asn Lys Phe Glu Val Trp Ile Asn Leu Ser His
 20 25 30

Ile Phe Tyr Cys Ser Leu Val Lys Lys Gly Thr Arg Lys Lys Ile Ser
 35 40 45

Ser Ser Leu Val Leu Ser Gln Cys Gly Asp Cys Arg Lys Leu Thr Met
 50 55 60

Pro Ala Cys Val Asn Val Trp Leu Thr Val Lys Ala Ser Phe Leu Ala
 65 70 75 80

Ala Cys

<210> 6111
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

5339

<400> 6111

Met Val Leu Arg Lys Tyr Phe Leu Trp Lys Ile Gly Arg Lys Tyr Phe
 1 5 10 15

Asn Leu Asn Ile Lys Lys Ile Gly Asn Cys Tyr Phe Gln Gln Gln Ser
 20 25 30

Pro Xaa

<210> 6112

<211> 87

<212> PRT

<213> Homo sapiens

<400> 6112

Gly Ser Pro Gly Ala His Glu Pro Cys Gln Ala Pro Ala Gly Ser Ser
 1 5 10 15

Arg His Val Pro Asp Leu Trp Gly Pro Arg Glu Gly Thr Phe Pro Ser
 20 25 30

Trp Glu Arg Arg Arg Ser Gly Gln Leu Gly Glu Gly Cys Glu His Phe
 35 40 45

Pro Pro Gly Arg Asp Gln Gly Asp Leu His Ala Leu Arg Arg Ala Trp
 50 55 60

Lys Gly Ser Glu Lys Pro Ala Asp Arg Pro Cys Pro Ser Ser Arg Asp
 65 70 75 80

His Leu Met Asn His Val Phe
 85

<210> 6113

<211> 253

<212> PRT

<213> Homo sapiens

<400> 6113

Gln Asn Leu Pro Leu Thr Arg Arg Arg Pro Thr Gly Ser Cys Val Cys
 1 5 10 15

Leu Gly Arg Gly Gly Pro Gly Gly Gly Gly Leu Arg Ala Gly Ser Arg
 20 25 30

His Pro Ala Pro Ala Ala Met His Pro Arg Arg Pro Asp Gly Phe Asp

5340

35	40	45
Gly Leu Gly Tyr Arg Gly Gly Ala Arg Asp Glu Gln Gly Phe Gly Gly		
50	55	60
Ala Phe Pro Ala Arg Ser Phe Ser Thr Gly Ser Asp Leu Gly His Trp		
65	70	75
Val Thr Thr Pro Pro Asp Ile Pro Gly Ser Arg Asn Leu His Trp Gly		
	85	90
Glu Lys Ser Pro Pro Tyr Gly Val Pro Thr Thr Ser Thr Pro Tyr Glu		
	100	105
Gly Pro Thr Glu Glu Pro Phe Ser Ser Gly Gly Gly Gly Ser Val Gln		
	115	120
Gly Gln Ser Ser Glu Gln Leu Asn Arg Phe Ala Gly Phe Gly Ile Gly		
	130	135
Leu Ala Ser Leu Phe Thr Glu Asn Val Leu Ala His Pro Cys Ile Val		
	145	150
Leu Arg Arg Gln Cys Gln Val Asn Tyr His Ala Gln His Tyr His Leu		
	165	170
Thr Pro Phe Thr Val Ile Asn Ile Met Tyr Ser Phe Asn Lys Thr Gln		
	180	185
Gly Pro Arg Ala Leu Trp Lys Gly Met Gly Ser Thr Phe Ile Val Gln		
	195	200
Gly Val Thr Leu Gly Ala Glu Gly Ile Ile Ser Glu Phe Thr Pro Leu		
	210	215
Pro Arg Glu Val Leu His Lys Trp Ser Pro Lys Gln Ile Gly Glu His		
	225	230
Leu Leu Leu Lys Ser Leu Asn Leu Arg Gly Gly Asn Ala		
	245	250

<210> 6114

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

5341

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6114

Ile	Leu	Phe	Cys	Pro	Ala	Ala	Ala	Xaa	Lys	Ala	Ser	His	Pro	Thr	Pro
1				5				10					15		

Arg	Thr	Phe	Leu	Val	Arg	Ser	Gly	Leu	Ala	Trp	Gly	Pro	Pro	Phe	Ser
			20					25					30		

Val	Ser	Leu	Val	Cys	Leu	Tyr	Pro	Ala	Leu	Leu	Ser	Ser	Leu	Cys	Ser
		35					40					45			

Ala	Cys	Leu	Ser	Leu	Phe	Ala	Ser	Pro	Phe	Ser	Leu	Ser	Cys	Arg	Leu
	50					55					60				

Leu	Ser	Leu	Gly	Pro	Pro	Trp	Phe	Cys	Leu	Val	Ser	Leu	Ser	Leu	Leu
65					70					75					80

Ile	Ser	Ser	Leu	Tyr	Ser	Phe	Ser	Arg	Ala	Gly	Pro	Thr	Gly	Arg	Thr
				85					90					95	

Arg	Leu	Ser	Gln	Ile	Asn	Pro	His	Thr	Asn	Lys	Ile	Gln	Asn	Gln	Ile
			100					105					110		

Pro	Leu	Xaa	Thr	Gly	Ala	Gly	Thr	Leu	Arg	Arg	Ser	Arg	Ile	Lys	Leu
		115					120					125			

Phe	Ser	Val	Ser	Glu	Ala	Leu	Leu	Thr	Cys	Val	Cys	Val	Cys	Val	Cys
		130				135					140				

Val	Leu	Gly	Glu	Gly	Asp	Leu	Asp	Cys	Ser	Ile	Arg	Thr	Leu	Ser	Glu
145					150					155					160

Thr	Glu	Gly	Arg	Trp	Glu	Asp	Asp
					165		

<210> 6115

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

5342

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6115

His	Glu	Val	Glu	Asn	Asn	Thr	Leu	Gly	Ser	Pro	Ala	Ala	Ser	Glu	Leu
1				5					10					15	

Leu	Glu	His	Leu	Lys	Pro	Thr	Tyr	Trp	Phe	Ser	Ala	His	Leu	His	Val
			20					25					30		

Lys	Phe	Ala	Ala	Leu	Met	Gln	His	Gln	Ala	Lys	Asp	Lys	Gly	Gln	Thr
		35					40					45			

Ala	Arg	Ala	Thr	Lys	Phe	Leu	Ala	Leu	Asp	Lys	Cys	Leu	Pro	His	Arg
	50					55					60				

Asp	Phe	Leu	Gln	Ile	Leu	Glu	Ile	Glu	His	Asp	Pro	Ser	Ala	Pro	Asp
65					70					75					80

Tyr	Leu	Glu	Tyr	Asp	Ile	Glu	Trp	Leu	Thr	Ile	Leu	Arg	Ala	Thr	Asp
				85					90						95

Asp	Leu	Ile	Asn	Val	Thr	Gly	Arg	Leu	Trp	Asn	Met	Pro	Glu	Asn	Asn
			100					105						110	

Gly	Leu	His	Ala	Arg	Trp	Asp	Tyr	Ser	Ala	Thr	Glu	Glu	Gly	Met	Lys
		115					120					125			

Glu	Val	Leu	Glu	Lys	Leu	Asn	His	Asp	Leu	Lys	Xaa	Pro	Cys	Asn	Phe
	130					135					140				

Ser	Val	Thr	Ala	Ala	Cys	Tyr	Asp	Pro	Ser	Lys	Pro	Xaa	Thr	Gln	Met
145					150					155					160

Gln	Leu	Ile	His	Arg	Ile	Asn	Pro	Xaa	Thr	Thr	Glu	Phe	Cys	Ala	Gln
				165					170						175

Leu	Gly	Ile	Ile
			180

5343

<210> 6116

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6116

Asn	Tyr	Lys	Ile	Cys	Met	Tyr	Leu	Ala	Leu	Asn	His	Asn	Leu	Lys	Tyr
1				5					10					15	

Phe	Met	Asn	Ser	Phe	Thr	Ser	Ile	Asp	Ser	Gln	Asn	Ser	Asn	Xaa	Lys
			20					25					30		

Leu	Ala	Ser	Glu	Pro	Val	Arg	Thr	Pro	Pro	His	Pro	Ser	Ser	Cys	Leu
		35					40					45			

Asp	Leu	Ser	Thr	Ala	Ile	Ile	Leu	Cys	Lys	Ala	Val	Val	Leu	Thr	
	50					55					60				

<210> 6117

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5344

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6117

Thr Leu Thr Lys Gly Xaa Lys Ser Trp Xaa Ser Thr Ala Val Thr Thr
 1 5 10 15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala
 20 25 30

Gln Leu Thr Arg Cys Gln Leu Gly Ser Cys Ser Gly Gly Arg Lys Arg
 35 40 45

Leu Arg Arg Phe Pro Ala Leu Ser Pro Gln Pro Xaa Arg Xaa Ser Gly
 50 55 60

Ser Gln Asp Val Xaa Phe Asp Asp
 65 70

<210> 6118

<211> 257

<212> PRT

<213> Homo sapiens

<400> 6118

Pro Arg Val Arg Ala Phe Ala Gly Val Pro Thr Arg Gly Arg Thr Arg
 1 5 10 15

Gly Gln Ser Arg Arg Cys Ala Ala Glu Ala Ser Ala Gly Pro Glu Arg
 20 25 30

Asp Ala Arg Pro Gly Ala Pro Ala Ala Gly Thr Met Gly Ala Ala His
 35 40 45

Ser Ala Ser Glu Glu Val Arg Glu Leu Glu Gly Lys Thr Gly Phe Ser
 50 55 60

Ser Asp Gln Ile Glu Gln Leu His Arg Arg Phe Lys Gln Leu Ser Gly
 65 70 75 80

Asp Gln Pro Thr Ile Arg Lys Glu Asn Phe Asn Asn Val Pro Asp Leu
 85 90 95

Glu Leu Asn Pro Ile Arg Ser Lys Ile Val Arg Ala Phe Phe Asp Asn
 100 105 110

Arg Asn Leu Arg Lys Gly Pro Ser Gly Leu Ala Asp Glu Ile Asn Phe
 115 120 125

5345

Glu Asp Phe Leu Thr Ile Met Ser Tyr Phe Arg Pro Ile Asp Thr Thr
 130 135 140
 Met Asp Glu Glu Gln Val Glu Leu Ser Arg Lys Glu Lys Leu Arg Phe
 145 150 155 160
 Leu Phe His Met Tyr Asp Ser Asp Ser Asp Gly Arg Ile Thr Leu Glu
 165 170 175
 Glu Tyr Arg Asn Val Val Glu Glu Leu Leu Ser Gly Asn Pro His Ile
 180 185 190
 Glu Lys Glu Ser Ala Arg Ser Ile Ala Asp Gly Ala Met Met Glu Ala
 195 200 205
 Ala Ser Val Cys Met Gly Gln Met Glu Pro Asp Gln Val Tyr Glu Gly
 210 215 220
 Ile Thr Phe Glu Asp Phe Leu Lys Ile Trp Gln Gly Ile Asp Ile Glu
 225 230 235 240
 Thr Lys Met His Val Arg Phe Leu Asn Met Glu Thr Met Ala Leu Cys
 245 250 255

His

<210> 6119

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6119

Leu Ser Ser Gly Ala Glu Gly Asp Pro Gly Ser Leu Thr Gly Arg Ala
 1 5 10 15
 Phe Phe Phe Thr Thr Thr Trp Ala Glu Val Arg Glu Phe Cys His Thr
 20 25 30
 Gly Gly Arg Val Thr His Gln Gly Gly Met Trp Leu Gln Gln Ala Lys
 35 40 45
 Gly His Arg Lys Gly Gly Ala Gly Asp Ser Arg Val Ala Ala Thr Leu
 50 55 60
 Val Gly Trp Gly Gly Ala Gly Gly Arg Ser Asn Arg Asp Gly Val Gly
 65 70 75 80

Leu Lys Lys Ser Phe Phe Phe Ser Phe Phe Lys Gln Lys Lys
85 90

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<400> 6120
Arg Tyr Phe Leu Lys Met Ala Lys Ile Leu Thr Thr Pro Lys Phe Ala
  1             5             10             15
His Ala Phe Arg Asn Leu Thr Phe Glu Gly Tyr Asp Gly Pro Val Thr
      20             25             30
Leu Asp Asp Trp Gly Asp Val Asp Ser Thr Met Val Leu Leu Tyr Thr
      35             40             45
Ser Val Asp Thr Lys Lys Tyr Lys Val Leu Leu Thr Tyr Asp Thr His
      50             55             60
Val Asn Lys Thr Tyr Pro Val Asp Met Ser Pro Thr Phe Thr Trp Lys
  65             70             75             80
Asn Ser Lys Leu Pro Asn Asp Ile Thr Gly Arg Gly Pro Gln Ile Leu
      85             90             95
Met Ile Ala Val Phe Thr Leu Thr Gly Ala Val Val Leu Ser Cys Arg
      100            105            110
Arg Ser Pro Asp Ala Gln Lys Ile
      115            120

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<400> 6121
Arg  Pro  Glu  Gly  Ala  Gln  Leu  Cys  Pro  Gln  Gly  Lys  Leu  Lys  Ser  Pro
  1          5          10          15

Ala  Leu  Ser  Ala  Leu  Gly  Pro  Cys  Arg  Ala  Val  Arg  Val  Glu  Leu  Pro
          20          25          30

Pro  Gln  Thr  Leu  Arg  Ser  His  Ala  Val  His  Ser  Ser  Ser  Trp  Ile  Ser
          35          40          45

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5347

Leu Arg Thr Phe Val Leu Ala Tyr Leu Asn Asp Leu Ser Thr Glu Thr
50 55 60

Pro Gly Cys Leu Pro Leu Pro Leu
65 70

<210> 6122

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6122

Val Leu Xaa Ser Ile Pro Phe Ile Ile Ser Tyr Val Ile Ser Leu Ser
1 5 10 15

Phe Leu Val Gly Ser Lys Thr His Xaa Gln Phe Ser Gln Ser Ser Met
20 25 30

Asp Ile

<210> 6123

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

5348

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6123

Ser	Ser	Phe	Pro	Gln	Pro	Pro	Xaa	His	Gly	Trp	Val	Gly	Glu	Ala	Arg
1				5					10					15	

Arg	Asn	Xaa	Leu	Arg	Gln	Glu	Val	Ala	Ala	Ala	Gln	Val	Xaa	Leu	Leu
			20					25					30		

Ala	Ser	Glu	Pro	Thr	Glu	Val	Arg	Ser	Gly	Arg	Trp	Thr	Cys	Pro	Pro
		35					40					45			

Asn	Val	Pro	Asp	Ser	Gly	Ser	Cys	Cys	His	Trp	Ile	Ser	Trp	His	Gly
	50					55					60				

Arg	Gln	Lys	Glu	Arg
65				

<210> 6124

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6124

Thr	Pro	Ala	Pro	Pro	Ser	Pro	Ala	Ala	Ala	Arg	Glu	Ser	Thr	Arg	Arg
1				5					10					15	

Val	Ala	Ile	Asn	Val	Arg	Ala	Ser	Ile	Ala	Leu	Ser	Ser	Ser	Leu	Arg
			20					25					30		

Thr	Leu	Val	Leu	Pro	Arg	Leu	Thr	Pro	Thr	Ser	Pro	Gly	Pro	Arg	Gly
		35					40					45			

Trp	Gly	Asn	Leu	Ala	Val	Pro	Arg	Leu	Ser	Asn	Lys	Ala	Val	Leu	Ser
	50					55					60				

5349

Asn Ser Lys Lys Lys Lys Lys Lys Xaa Ser Phe Phe Phe Phe Phe Xaa
 65 70 75 80

<210> 6125

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6125

Ser Ser Ser Xaa Lys Xaa Asp Xaa Arg Ile Gly Lys Ala Gly Thr Pro
 1 5 10 15

Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Glu
 20 25 30

Val Leu Phe Ser Thr Cys Gly Val Ser His Trp Lys His Asn Pro Ile
 35 40 45

Val Pro Glu Gly Phe Ser Pro Gln Trp Leu Ser His Pro Lys Arg Lys
 50 55 60

Ser Leu Ser Phe Leu Thr Leu Leu Phe Cys His Leu Leu Pro Leu Asp
 65 70 75 80

Asn Gln Gly Gln Gly Ala Thr Trp Lys Cys Leu Thr
 85 90

<210> 6126

<211> 105

5350

<212> PRT

<213> Homo sapiens

<400> 6126

Asp Glu Glu Ala Lys Asp Glu Lys Ala Glu Pro Asn Arg Asp Lys Ser
1 5 10 15

Val Gly Pro Leu Pro Gln Ala Asp Pro Glu Val Ser Asp Ile Glu Ser
20 25 30

Arg Ile Ala Ala Leu Arg Ala Ala Gly Leu Thr Val Lys Pro Ser Gly
35 40 45

Lys Pro Arg Arg Lys Ser Asn Leu Pro Ala Leu Tyr Glu Gly Thr Leu
50 55 60

Ser Leu Cys Ser Glu Asp Leu Lys His Thr His Pro Asp Ser Val Lys
65 70 75 80

Ser Lys Arg Ser Arg Leu Asn His Val Ala Ser Cys Gly Asn Leu Ser
85 90 95

Pro Pro Pro Arg Glu Asp Gly Cys Asp
100 105

<210> 6127

<211> 42

<212> PRT

<213> Homo sapiens

<400> 6127

Thr Pro Glu Leu Lys Arg Ser Phe His Leu Ile Leu Gln Ser Ser Trp
1 5 10 15

Asp Tyr Ser Arg Val Ser Thr Cys Leu Ala Asn Phe Ser Phe Leu Ile
20 25 30

Phe Leu Glu Leu Gly Ser His Tyr Val Ala
35 40

<210> 6128

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5351

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6128

Pro	Ala	Ala	Val	Gln	Pro	Leu	Gly	Leu	Pro	Ser	Pro	Ser	Thr	Ser	Cys
1				5					10					15	

Ser	Ser	Ala	Ser	Gln	Ala	Ile	Ala	Met	Val	Phe	Val	Arg	Arg	Pro	Trp
			20					25					30		

Pro	Ala	Leu	Thr	Thr	Val	Leu	Leu	Ala	Leu	Leu	Val	Cys	Leu	Gly	Ala
		35					40					45			

Leu	Val	Asp	Ala	Tyr	Pro	Ile	Lys	Pro	Glu	Ala	Pro	Gly	Glu	Asp	Ala
	50					55					60				

Ser	Pro	Glu	Glu	Leu	Asn	Arg	Tyr	Tyr	Ala	Ser	Leu	Arg	His	Tyr	Leu
65					70					75					80

Asn	Leu	Val	Thr	Arg	Gln	Arg	Tyr	Gly	Lys	Arg	Asp	Gly	Pro	Asp	Thr
				85					90					95	

Leu	Leu	Ser	Lys	Thr	Phe	Phe	Pro	Asp	Gly	Glu	Asp	Arg	Pro	Val	Ser
			100					105					110		

Arg	Gly	Lys	Ser	Ala	Arg	Tyr	His	Thr	Ser	Cys	Ile	Arg	Glu	Arg	Gly
		115					120					125			

Leu	Ala	Leu	Pro	Trp	Gln	His	His	Leu	Thr	Thr	Ser	Pro	Arg	Leu	Ala
	130					135					140				

Ser	Pro	Asp	Pro	Ile	Leu	Xaa	Phe	Val	Xaa	Gln	Ser	Glu	Gly	Gln	Thr
145					150					155					160

Val	Val	Arg	Thr	Leu	Arg	Leu	Trp	Glu	Xaa	Ala	Asn	Ser	Gln	Ser	Phe
				165					170					175	

5352

<210> 6129

<211> 205

<212> PRT

<213> Homo sapiens

<400> 6129

Lys Val His Ser Ser Glu Ala Gly Leu Thr Ser Arg Phe Leu Ile Ala
 1 5 10 15

Trp Asp Val His Arg Ala Asn Val Leu Glu Gly Gly Asp Pro Thr Phe
 20 25 30

Pro Gln Leu Thr Ala Ser Pro His Ser Met Asp Ser Met Leu Pro Ser
 35 40 45

Gly Glu Gly Gly Pro Lys Arg Thr His Pro Thr Val Pro Gly Ile Pro
 50 55 60

Gly Gly Thr Arg Ala Gly Ala Gly Lys Ile Gly Arg Met Ile Ala Glu
 65 70 75 80

Glu Ile Met Glu Ile His Arg Ile Arg Gly Ser Ser Pro Ser Ser Cys
 85 90 95

Gly Ser Ser Pro Leu Asn Ile Thr Ser Thr Pro Pro Pro Asp Ala Ser
 100 105 110

Ser Pro Gly Gly Lys Lys Ile Leu Asn Gly Gly Thr Pro Asp Ile Pro
 115 120 125

Ser Ser Gly Leu Leu Ser Gly Gln Ala Gln Glu Asn Pro Gly Tyr Pro
 130 135 140

Tyr Ser Asp Ser Ser Ser Ile Leu Gly Glu Asn Pro His Ile Gly Ile
 145 150 155 160

Asp Met Ile Asp Asn Asp Gln Gly Ser Ser Ser Pro Ser Asn Asp Glu
 165 170 175

Ala Ala Met Ala Val Ile Met Ser Leu Leu Glu Ala Asp Ala Gly Leu
 180 185 190

Gly Gly Pro Val Asp Phe Ser Asp Leu Pro Trp Pro Leu
 195 200 205

<210> 6130

<211> 63

<212> PRT

5353

<213> Homo sapiens

<400> 6130

Pro Ala Lys Pro Gln Lys Gly Gln Glu Ser Gly Lys Leu Gln Arg Pro
 1 5 10 15

Lys Arg Gln Gln Leu Ile Val Ser Ser Glu Cys Cys Cys Gln Asn Lys
 20 25 30

Pro Thr Arg Ala Val Phe Ser Pro Cys Pro Asn Gln Ile Lys Val Gln
 35 40 45

Ile Pro Glu Lys Glu Pro Pro Trp Leu Gly Arg Thr Gln Ala His
 50 55 60

<210> 6131

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6131

Xaa Thr Val Ser Arg Val Arg Ala Leu Tyr Lys Arg Val Leu Gln Leu
 1 5 10 15

His Arg Val Leu Pro Pro Asp Leu Lys Ser Leu Gly Asp Gln Tyr Val
 20 25 30

Lys Asp Glu Phe Arg Arg His Lys Thr Val Gly Ser Asp Glu Ala Gln
 35 40 45

Arg Phe Leu Gln Glu Trp Glu Gly Phe Lys Cys Leu Lys Ser Gly Arg
 50 55 60

Glu Lys Glu Thr Val Phe Lys Glu Phe Lys Ile Leu Lys Trp Lys Arg
 65 70 75 80

Pro Xaa Arg

5354

<210> 6132
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 6132
 Val Gly Leu Glu Ile Asn Met Leu Ala Phe Ile Pro Val Leu Thr Lys
 1 5 10 15
 Lys Ile Asn Pro Arg Ser Thr Glu Ala Ala Ile Lys Tyr Phe Leu Thr
 20 25 30
 Gln Ala Thr Ala Ser Ile Ile Leu Leu Ile Ala Ile Leu Phe Asn Asn
 35 40 45
 Ile Leu Ser Gly Gln
 50

<210> 6133
 <211> 180
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6133
 Ala Gln Asp Gln Asn Ser Lys Cys Ile Gly Thr Asp Leu Asn Arg Asn
 1 5 10 15
 Phe Asn Ala Ser Trp Asn Ser Ile Pro Asn Thr Asn Asp Pro Cys Ala
 20 25 30
 Asp Asn Tyr Arg Gly Ser Ala Pro Glu Ser Glu Xaa Glu Thr Lys Xaa
 35 40 45
 Val Thr Asn Phe Ile Arg Ser His Leu Asn Glu Ile Lys Val Tyr Ile
 50 55 60
 Thr Phe His Ser Tyr Ser Gln Met Leu Leu Phe Pro Tyr Gly Tyr Thr

5355

65		70		75		80
Ser Lys Leu Pro	Pro Asn His Glu Asp Leu Ala Lys Val Ala Lys Ile					
	85		90		95	
Gly Thr Asp Val Leu Ser Thr Arg Tyr Glu Thr Arg Tyr Ile Tyr Gly						
	100		105		110	
Pro Ile Glu Ser Thr Ile Tyr Pro Ile Ser Gly Ser Ser Leu Asp Trp						
	115		120		125	
Ala Tyr Asp Leu Gly Ile Lys His Thr Phe Ala Phe Glu Leu Arg Asp						
	130		135		140	
Lys Gly Lys Phe Gly Phe Leu Leu Pro Glu Ser Arg Ile Lys Pro Thr						
	145		150		155	160
Cys Arg Glu Thr Met Leu Ala Val Lys Phe Ile Ala Lys Tyr Ile Leu						
	165		170		175	
Lys His Thr Ser						
	180					

<210> 6134

<211> 42

<212> PRT

<213> Homo sapiens

<400> 6134

Met Val Leu Phe Ala Val Thr Gln Thr Thr Leu His Lys Thr Phe Phe									
1		5			10			15	
Pro Lys Trp Tyr Lys Phe Ile Asn Tyr His Phe Ser Leu Thr Val Phe									
	20		25				30		
Val Asn Thr Thr Leu Gln Lys Ser Ala Phe									
	35		40						

<210> 6135

<211> 212

<212> PRT

<213> Homo sapiens

<400> 6135

Phe Tyr Leu Gly Ser Ser Thr Ala Ser Asp Phe Leu Ala Val Glu Met									
1		5			10			15	

5356

Arg Arg Gly Arg Val Ala Phe Leu Trp Asp Leu Gly Ser Gly Ser Thr
 20 25 30
 Arg Leu Glu Phe Pro Asp Phe Pro Ile Asp Asp Asn Arg Trp His Ser
 35 40 45
 Ile His Val Ala Arg Phe Gly Asn Ile Gly Ser Leu Ser Val Lys Glu
 50 55 60
 Met Ser Ser Asn Gln Lys Ser Pro Thr Lys Thr Ser Lys Ser Pro Gly
 65 70 75 80
 Thr Ala Asn Val Leu Asp Val Asn Asn Ser Thr Leu Met Phe Val Gly
 85 90 95
 Gly Leu Gly Gly Gln Ile Lys Lys Ser Pro Ala Val Lys Val Thr His
 100 105 110
 Phe Lys Gly Cys Leu Gly Glu Ala Phe Leu Asn Gly Lys Ser Ile Gly
 115 120 125
 Leu Trp Asn Tyr Ile Glu Arg Glu Gly Lys Cys Arg Gly Cys Phe Gly
 130 135 140
 Ser Ser Gln Asn Glu Asp Pro Ser Phe His Phe Asp Gly Ser Gly Tyr
 145 150 155 160
 Ser Val Val Glu Lys Ser Leu Pro Ala Thr Val Thr Gln Ile Ile Met
 165 170 175
 Leu Phe Asn Thr Phe Ser Pro Asn Gly Leu Leu Ser Leu Pro Gly Phe
 180 185 190
 Ile Arg His Lys Arg Leu Phe Ile His Arg Ala Val Ser Trp Gln Ser
 195 200 205
 Glu Gly Tyr Asp
 210

<210> 6136

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

5357

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6136

His	Ala	Ser	Pro	Pro	Ser	Glu	Lys	Lys	Ile	Leu	Arg	Gln	Ser	Met	Cys
1				5					10					15	

Phe	Ser	Cys	Pro	Ser	Xaa	His	Arg	Ser	Leu	Ser	Xaa	Thr	Gln	Xaa	Asp
			20					25					30		

Phe	Ser	Gly	Val	Lys	Phe	Arg	Arg	His	Gly	Ala	Asp	Asn	His	Glu	Ala
		35					40					45			

Ser	Ala	Ala	Thr	Ala	Thr	Thr	Ala	Ala	Ala	Thr	Thr	Val	Ala	Ala	Ala
	50					55					60				

Ala	Ala	Ala	Ala	Ala	Ala	Arg	Val	Thr	Leu	Thr
65					70				75	

<210> 6137

<211> 186

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6137

Lys	Leu	Thr	Leu	Thr	Lys	Gly	Xaa	Lys	Ser	Trp	Glu	Leu	His	Arg	Gly
1				5					10					15	

Asp	Xaa	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	Gly
			20					25					30		

Thr	Arg	Thr	Thr	Glu	Gly	Glu	Glu	Ile	Thr	Glu	Ser	Ser	Ser	Thr	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5358

35	40	45
Glu Met Glu Val Arg Ser Val Val Ala Asp Thr Asp Gln Lys Ala Leu		
50	55	60
Gly Ser Glu Val Gln Asp Ala Ser Lys Val Thr Thr Gln Ile Asp Lys		
65	70	75
Glu Lys Lys Glu Ile Pro Val Ser Ile Lys Lys Glu Pro Glu Val Thr		
85	90	95
Val Val Ser Gln Pro Thr Glu Pro Gln Pro Val Leu Ile Pro Ser Ile		
100	105	110
Asn Ile Asn Ser Asp Ser Gly Glu Asn Lys Glu Glu Ile Gly Ser Leu		
115	120	125
Ser Lys Thr Glu Thr Ile Leu Pro Pro Glu Ser Glu Asn Pro Lys Glu		
130	135	140
Asn Asp Asn Asp Ser Gly Thr Gly Ser Thr Ala Asp Thr Ser Ser Ile		
145	150	155
Asp Leu Asn Leu Ser Ile Ser Ser Phe Leu Ser Lys Thr Lys Asp Ser		
165	170	175
Gly Ser Ile Ser Leu Gln Glu Thr Lys Lys		
180	185	

<210> 6138

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

5359

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6138

Xaa	Xaa	Leu	Leu	Lys	Gly	Thr	Lys	Xaa	Gly	Ser	Ser	Thr	Ala	Val	Xaa
1				5					10					15	

Thr	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg
			20					25					30		

Ala	Gly	Ser	Gly	Pro	Glu	Pro	Glu	Ser	Glu	Ser	Glu	Ser	Glu	Ser	Glu
		35					40					45			

Pro	Lys	Ser	Glu	Cys	Gln	Ser	Glu	Pro	Asp	Ser	Glu	Ser	Asp	Ala	Glu
	50					55					60				

Ser	Asp	Ser	Glu	Phe	Glu	Pro	Glu	Gly	Glu	Pro	Gly	Lys	Pro	Glu	Ala
65					70					75					80

Glu	Leu	Arg	Gln	Gly	Ala	Glu
				85		

<210> 6139

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6139

Arg	Ala	Phe	Gly	Gln	Ala	Arg	Xaa	Ala	Ala	Glu	Ala	Ile	Ser	Leu	Thr
1				5					10					15	

Gln	Gly	Arg	Ser	Cys	Pro	Glu	Pro	Ala	Thr	Ala	Leu	Ser	Gln	Pro	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5360

20 25 30
 Ser Phe Ser Val Leu Pro Xaa Pro Arg Leu Pro Arg Arg Gly Tyr Pro
 35 40 45
 Gln Pro Gln Pro Gly Ala Gly Glu Ala Ala Lys Gly Glu Gly Arg Asn
 50 55 60
 Gln Gly Met Ser Ala Gly Arg Ala Xaa Gly Ala Leu Ser Arg Thr Arg
 65 70 75 80
 Thr Ala Leu Gly Ala Gly
 85

<210> 6140

<211> 594

<212> PRT

<213> Homo sapiens

<400> 6140

Arg Gln Ile Phe Gln Ser Leu Pro Pro Phe Met Asp Ile Leu Leu Leu
 1 5 10 15
 Leu Leu Phe Phe Met Ile Ile Phe Ala Ile Leu Gly Phe Tyr Leu Phe
 20 25 30
 Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser Thr Leu Glu Asn Ser Ile
 35 40 45
 Val Ser Leu Phe Val Leu Leu Thr Thr Ala Asn Phe Pro Asp Val Met
 50 55 60
 Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser Cys Val Phe Phe Ile Val
 65 70 75 80
 Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met Asn Leu Leu Leu Ala Val
 85 90 95
 Val Phe Asp Thr Phe Asn Asp Ile Glu Lys Arg Lys Phe Lys Ser Leu
 100 105 110
 Leu Leu His Lys Arg Thr Ala Ile Gln His Ala Tyr Arg Leu Leu Ile
 115 120 125
 Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr Arg Gln Phe Glu Gly Leu
 130 135 140
 Met Arg Phe Tyr Lys Pro Arg Met Ser Ala Arg Glu Arg Tyr Leu Thr
 145 150 155 160

5361

Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro Leu Leu Ser Leu Lys Asp
 165 170 175

Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu Lys Trp Lys Ala Lys Lys
 180 185 190

Asn Arg Glu His Trp Phe Asp Glu Leu Pro Arg Thr Ala Leu Leu Ile
 195 200 205

Phe Lys Gly Ile Asn Ile Leu Val Lys Ser Lys Ala Phe Gln Tyr Phe
 210 215 220

Met Tyr Leu Val Val Ala Val Asn Gly Val Trp Ile Leu Val Glu Thr
 225 230 235 240

Phe Met Leu Lys Gly Gly Asn Phe Phe Ser Lys His Val Pro Trp Ser
 245 250 255

Tyr Leu Val Phe Leu Thr Ile Tyr Gly Val Glu Leu Phe Leu Lys Val
 260 265 270

Ala Gly Leu Gly Pro Val Glu Tyr Leu Ser Ser Gly Trp Asn Leu Phe
 275 280 285

Asp Phe Ser Val Thr Val Phe Ala Phe Leu Gly Leu Leu Ala Leu Ala
 290 295 300

Leu Asn Met Glu Pro Phe Tyr Phe Ile Val Val Leu Arg Pro Leu Gln
 305 310 315 320

Leu Leu Arg Leu Phe Lys Leu Lys Glu Arg Tyr Arg Asn Val Leu Asp
 325 330 335

Thr Met Phe Glu Leu Leu Pro Arg Met Ala Ser Leu Gly Leu Thr Leu
 340 345 350

Leu Ile Phe Tyr Tyr Ser Phe Ala Ile Val Gly Met Glu Phe Phe Cys
 355 360 365

Gly Ile Val Phe Pro Asn Cys Cys Asn Thr Ser Thr Val Ala Asp Ala
 370 375 380

Tyr Arg Trp Arg Asn His Thr Val Gly Asn Arg Thr Val Val Glu Glu
 385 390 395 400

Gly Tyr Tyr Tyr Leu Asn Asn Phe Asp Asn Ile Leu Asn Ser Phe Val
 405 410 415

Thr Leu Phe Glu Leu Thr Val Val Asn Asn Trp Tyr Ile Ile Met Glu
 420 425 430

5362

Gly Val Thr Ser Gln Thr Ser His Trp Ser Arg Leu Tyr Phe Met Thr
 435 440 445

Phe Tyr Ile Val Thr Met Val Val Met Thr Ile Ile Val Ala Phe Ile
 450 455 460

Leu Glu Ala Phe Val Phe Arg Met Asn Tyr Ser Arg Lys Asn Gln Asp
 465 470 475 480

Ser Glu Val Asp Gly Gly Ile Thr Leu Glu Lys Glu Ile Ser Lys Glu
 485 490 495

Glu Leu Val Ala Val Leu Glu Leu Tyr Arg Glu Ala Arg Gly Ala Ser
 500 505 510

Ser Asp Val Thr Arg Leu Leu Glu Thr Leu Ser Gln Met Glu Arg Tyr
 515 520 525

Gln Gln His Ser Met Val Phe Leu Gly Arg Arg Ser Arg Thr Lys Ser
 530 535 540

Asp Leu Ser Leu Lys Met Tyr Gln Glu Glu Ile Gln Glu Trp Tyr Glu
 545 550 555 560

Glu His Ala Arg Glu Gln Glu Gln Gln Arg Gln Leu Ser Ser Ser Ala
 565 570 575

Ala Pro Ala Ala Gln Gln Pro Pro Gly Ser Arg Gln Arg Ser Gln Thr
 580 585 590

Val Thr

<210> 6141

<211> 377

<212> PRT

<213> Homo sapiens

<400> 6141

Leu Ala Glu Ala Thr Lys Lys Glu Ile Thr Phe Phe Gln Thr His Pro
 1 5 10 15

Tyr Phe Arg Val Leu Leu Glu Glu Gly Ser Ala Thr Val Pro Arg Leu
 20 25 30

Ala Glu Arg Leu Thr Thr Glu Leu Ile Met His Ile Gln Lys Ser Leu
 35 40 45

5363

Pro Leu Leu Glu Gly Gln Ile Arg Glu Ser His Gln Lys Ala Thr Glu
 50 55 60

Glu Leu Arg Arg Cys Gly Ala Asp Ile Pro Ser Gln Glu Ala Asp Lys
 65 70 75 80

Met Phe Phe Leu Ile Glu Lys Ile Lys Met Phe Asn Gln Asp Ile Glu
 85 90 95

Lys Leu Val Glu Gly Glu Glu Val Val Arg Glu Asn Glu Thr Arg Leu
 100 105 110

Tyr Asn Lys Ile Arg Glu Asp Phe Lys Asn Trp Val Gly Ile Leu Ala
 115 120 125

Thr Asn Thr Gln Lys Val Lys Asn Ile Ile His Glu Glu Val Glu Lys
 130 135 140

Tyr Glu Lys Gln Tyr Arg Gly Lys Glu Leu Leu Gly Phe Val Asn Tyr
 145 150 155 160

Lys Thr Phe Glu Ile Ile Val His Gln Tyr Ile Gln Gln Leu Val Glu
 165 170 175

Pro Ala Leu Ser Met Leu Gln Lys Ala Met Glu Ile Ile Gln Gln Ala
 180 185 190

Phe Ile Asn Val Ala Lys Lys His Phe Gly Glu Phe Phe Asn Leu Asn
 195 200 205

Gln Thr Val Gln Ser Thr Ile Glu Asp Ile Lys Val Lys His Thr Ala
 210 215 220

Lys Ala Glu Asn Met Ile Gln Leu Gln Phe Arg Met Glu Gln Met Val
 225 230 235 240

Phe Cys Gln Asp Gln Ile Tyr Ser Val Val Leu Lys Lys Val Arg Glu
 245 250 255

Glu Ile Phe Asn Pro Leu Gly Thr Pro Ser Gln Asn Met Lys Leu Asn
 260 265 270

Ser His Phe Pro Ser Asn Glu Ser Ser Val Ser Ser Phe Thr Glu Ile
 275 280 285

Gly Ile His Leu Asn Ala Tyr Phe Leu Glu Thr Ser Lys Arg Leu Ala
 290 295 300

Asn Gln Ile Pro Phe Ile Ile Gln Tyr Phe Met Leu Arg Glu Asn Gly
 305 310 315 320

5364

Asp Ser Leu Gln Lys Ala Met Met Gln Ile Leu Gln Glu Lys Asn Arg
 325 330 335

Tyr Ser Trp Leu Leu Gln Glu Gln Ser Glu Thr Ala Thr Lys Arg Arg
 340 345 350

Ile Leu Lys Glu Arg Ile Tyr Arg Leu Thr Gln Ala Arg His Ala Leu
 355 360 365

Cys Gln Phe Ser Ser Lys Glu Ile His
 370 375

<210> 6142

<211> 87

<212> PRT

<213> Homo sapiens

<400> 6142

Gln Ile Lys Gly Glu Val Leu Ala Lys Ser Ile Cys Glu Asp Asp Thr
 1 5 10 15

Leu Gly Ile Ala Gly His Lys Thr Gly Lys Val Gly Lys Cys Ser Leu
 20 25 30

Asn Gly Ala Tyr Thr Leu Ser Tyr Arg Gln Trp Glu Ala Leu Gly Lys
 35 40 45

Asn Thr Val Ile Arg Lys Phe Cys Ile His Phe Ser Asn Gly Glu Lys
 50 55 60

Leu Gly Asn Ser Leu Leu Gly Gly Ser Leu Trp Ala Gly Ile Ser Gln
 65 70 75 80

Leu Ile Ser Gly Phe Ile Phe
 85

<210> 6143

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6143

5365

Ile Arg His Arg Leu Asp Leu Leu Leu Gly Val Arg Glu Lys Ser Val
 1 5 10 15

Ser Xaa Leu Leu Val Leu Leu Pro Lys Cys Phe Tyr Lys Glu Met Thr
 20 25 30

Gly Asp Ile Tyr Ser Pro Lys Glu Leu Ile Tyr
 35 40

<210> 6144

<211> 76

<212> PRT

<213> Homo sapiens

<400> 6144

His Lys Arg Cys Leu Ile Phe Ile Gln Ala Ile Phe Ala His Ile His
 1 5 10 15

Gln Asn Gly Met Thr Gln Gly Lys Asn His Phe Ala Lys Gly Asn Lys
 20 25 30

Thr Ser Cys Arg Gln Leu Asp Thr Phe Arg Leu Phe Arg Lys Val Cys
 35 40 45

Thr Gly Thr Leu Ile Gly Ile Leu Leu Val Tyr Leu Leu Ser Tyr Phe
 50 55 60

Lys Val Val Ala Leu Ile Ile Val Val Ser Val Phe
 65 70 75

<210> 6145

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6145

Trp Met Lys Met Arg Lys Thr Glu Pro Arg Glu Leu Leu Glu Thr Ser
 1 5 10 15

Leu Arg Lys Lys Arg Arg Asp Gln Phe Asn Val Leu Ile Lys Glu Leu
 20 25 30

5366

Ser Ser Met Leu Pro Gly Asn Thr Arg Lys Met Asp Lys Thr Thr Val
 35 40 45

Leu Glu Lys Val Ile Gly Phe Leu Gln Lys His Asn Glu Val Ser Ala
 50 55 60

Gln Thr Glu Ile Cys Asp Ile Gln Gln Asp Trp Xaa Pro Ser Phe Leu
 65 70 75 80

Ser Asn Glu Glu Phe Thr Gln Leu Met Leu Glu Ser His Phe Arg Asp
 85 90 95

Cys Glu Glu Ser Arg Cys His Val Leu Val Ala Arg Met Phe Pro Phe
 100 105 110

<210> 6146

<211> 75

<212> PRT

<213> Homo sapiens

<400> 6146

Ser Phe Thr Pro Ala Asn Thr Ser Ile Leu Leu Ile Asn Gly Asn Ile
 1 5 10 15

Leu Met Cys His Phe Leu Ser Lys Gln Val Ser Tyr Thr Ala Pro Arg
 20 25 30

Gly Pro Arg Glu Ala Glu Ala Gln Thr Glu Gly Glu His Ser Leu Ala
 35 40 45

Gly Arg His Met Pro Gly Arg Met Thr Ile Gly Ile Ala Ser Ser Ile
 50 55 60

Asn Gln Leu Leu Lys Gly Phe Leu Ser Asp Ser
 65 70 75

<210> 6147

<211> 32

<212> PRT

<213> Homo sapiens

<400> 6147

Thr Leu Cys Val Gly Ser Trp Gln Ala Ala Met Ser Leu Gly Ile Ile
 1 5 10 15

5367

Glu Ile Ile Asp Asp Thr Glu His Ser Tyr Ala Leu Ser Leu Tyr Ser
 20 25 30

<210> 6148

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6148

Gln Asp Arg Lys Gly Asp Arg Xaa Arg Leu Tyr Leu Lys Lys Xaa Xaa
 1 5 10 15

Thr Ile Leu Phe Leu Ile Leu Phe Asn Ser Ser Phe Leu Phe Phe Ser
 20 25 30

Pro Trp Leu Leu Cys Ser Leu Ile Val Ile
 35 40

<210> 6149

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6149

Asp Phe Phe Phe Lys Arg Thr Phe Lys Ile Met Ile Ser Asn Phe Asn
 1 5 10 15

Cys Ile Tyr Arg Gly Phe Lys Glu Ser Leu Ile Ser Cys Thr Leu Leu

5368

	20		25		30
Arg	Leu	Ser	Tyr	Ser	Phe
	35		40		45
Glu	Ala	Asp	Pro	Leu	Gln
	50		55		60
Ser	Arg	Leu	Leu	Gln	Ser
	65		70		

<210> 6150
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 6150
Leu Thr Leu Tyr Asp Met Cys Lys Ala Val Ser Arg Asp Ile Val Leu
1 5 10 15
Glu Glu Ile Lys Leu Ile Ser Lys Thr Gly Gly Gln Arg Gly Asp Phe
20 25 30
His Arg Ala
35

<210> 6151
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6151
Leu Ser Thr Glu Cys Asp Arg Tyr Cys Ser Lys His Phe Ile Cys Asn
1 5 10 15
Asp Leu Leu Leu Gln Asn Thr Pro Met Ser Asn Val Leu Leu Ser Pro
20 25 30
Tyr Leu Gln Leu Arg Lys Leu Gly Thr Glu Xaa Leu Ser Asn
35 40 45

5369

<210> 6152

<211> 66

<212> PRT

<213> Homo sapiens

<400> 6152

Ala Lys Ile Lys Gly Leu Gln Lys His Ser Phe Leu Cys Cys Ser Leu
 1 5 10 15

Leu Gly Phe Met Gln Arg Gln Phe Cys Val Asn Val Gln Leu Thr Leu
 20 25 30

Ile Trp Lys Tyr Glu Asn Gln Ser Ile Leu Val Ile Lys Asn Phe Phe
 35 40 45

Thr Ile Val Ile Ile Leu Met Phe Ile Leu Cys Lys Ile Thr His Leu
 50 55 60

Ile Lys
 65

<210> 6153

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6153

Gly Val Leu Gly Gln Xaa Val Thr Xaa Tyr Phe Ser Gln Pro Leu Xaa
 1 5 10 15

Cys Asp Trp Arg Thr Leu Leu Phe Ser His Val Phe Leu Ile Met Pro
 20 25 30

5370

Glu Ser Pro Thr Pro Leu Leu Gly Arg Asp Ile Leu Gly Lys Ala Gly
35 40 45

Ala Val Ile His
50

<210> 6154

<211> 83

<212> PRT

<213> Homo sapiens

<400> 6154

Ser Val Trp Gly Ser Val Ser Phe Pro Gly Ser Trp His Ser Ser Gly
1 5 10 15

Pro Leu Ser Leu Pro Leu Leu Gly Glu Gly Gly Lys Arg Glu Ile Pro
20 25 30

Ser Ser Gln Pro Glu Arg Ala Glu Ala Asp Arg Ser Pro Leu Ala Leu
35 40 45

Cys Ala Cys Val Arg Ala Ser Val Ser Leu Leu Val Gly Arg Ser Asp
50 55 60

Val Val Gly Gly Lys Pro Gly Met Tyr Pro Phe Gln Thr Lys Leu Asn
65 70 75 80

Ile Leu Lys

<210> 6155

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6155

Glu Asn Ala Leu Gln Thr Phe Leu His Pro Thr Pro Pro Asn Ser Glu

5371

1	5	10	15
Ala Cys Trp Asp Pro Ser Ser Pro Ile Gly Ser Pro Gly Xaa Pro Ser	20	25	30
Val Phe Thr Gln Ser Arg Pro Phe Phe Arg Ser Phe Pro Val Arg Gly	35	40	45
Arg Tyr Thr Trp Thr Arg Ile Tyr Pro His Leu Thr Thr Leu Lys Ser	50	55	60
Cys Phe Leu Pro Xaa Ile His Ile Leu Ser Ser Cys His Leu Pro Ile	65	70	75
Gln Leu His Ile Cys Leu Ile Ala Leu Phe Phe Ser Val His Leu Ser	85	90	95

<210> 6156

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6156

Leu Ala Ile Ser Phe Thr Lys Met Ser Ser Ala Ala Glu Asn Gly Glu	1	5	10	15
Ala Ala Pro Gly Lys Gln Asn Glu Glu Lys Thr Tyr Lys Lys Thr Ala	20	25	30	
Ser Ser Ala Ile Lys Gly Ala Ile Gln Leu Gly Ile Gly Tyr Thr Val	35	40	45	
Gly Asn Leu Thr Ser Lys Pro Glu Pro Arg Cys Ser Tyr Ala Arg Leu	50	55	60	
Leu Cys Gly Gly Lys Cys Val Pro Thr Gln Arg Arg Glu Ala Ile Leu	65	70	75	80
Thr Pro Ala His His Tyr Pro Arg Leu	85			

<210> 6157

<211> 36

<212> PRT

5372

<213> Homo sapiens

<400> 6157

Thr Ala Cys Lys Ile Leu Tyr Met Arg Cys Cys Arg Tyr Arg Asn Glu
 1 5 10 15

Phe Ser Val His Val Trp Leu Ile Phe Phe Val His Asp Phe Cys Met
 20 25 30

Phe Pro Phe Gln
 35

<210> 6158

<211> 387

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6158

Pro Ala Gln Arg Pro Pro Pro Ala Xaa Gly Ala Ser Arg Gly Pro Gly
 1 5 10 15

Gln Thr Arg Cys Glu Met Glu Lys Tyr Leu Thr Pro Gln Leu Pro Pro
 20 25 30

Val Pro Ile Ile Pro Glu His Lys Lys Tyr Arg Arg Asp Ser Ala Ser
 35 40 45

Val Val Asp Gln Phe Phe Thr Asp Thr Glu Gly Leu Pro Tyr Ser Ile
 50 55 60

Asn Met Asn Val Phe Leu Pro Asp Ile Thr His Leu Arg Thr Gly Leu
 65 70 75 80

Tyr Lys Ser Gln Arg Pro Cys Val Thr His Ile Lys Thr Glu Pro Val
 85 90 95

Ala Ile Phe Ser His Gln Ser Glu Thr Thr Ala Pro Pro Pro Ala Pro
 100 105 110

Thr Gln Ala Leu Pro Glu Phe Thr Ser Ile Phe Ser Ser His Gln Thr
 115 120 125

Ala Ala Pro Glu Val Asn Asn Ile Phe Ile Lys Gln Glu Leu Pro Thr
 130 135 140

5373

Pro Asp Leu His Leu Ser Val Pro Thr Gln Gln Gly His Leu Tyr Gln
 145 150 155 160
 Leu Leu Asn Thr Pro Asp Leu Asp Met Pro Ser Ser Thr Asn Gln Thr
 165 170 175
 Ala Ala Met Asp Thr Leu Asn Val Ser Met Ser Ala Ala Met Ala Gly
 180 185 190
 Leu Asn Thr His Thr Ser Ala Val Pro Gln Thr Ala Val Lys Gln Phe
 195 200 205
 Gln Gly Met Pro Pro Cys Thr Tyr Thr Met Pro Ser Gln Phe Leu Pro
 210 215 220
 Gln Gln Ala Thr Tyr Phe Pro Pro Ser Pro Pro Ser Ser Glu Pro Gly
 225 230 235 240
 Ser Pro Asp Arg Gln Ala Glu Met Leu Gln Asn Leu Thr Pro Pro Pro
 245 250 255
 Ser Tyr Ala Ala Thr Ile Ala Ser Lys Leu Ala Ile His Asn Pro Asn
 260 265 270
 Leu Pro Thr Thr Leu Pro Val Asn Ser Gln Asn Ile Gln Pro Val Arg
 275 280 285
 Tyr Asn Arg Arg Ser Asn Pro Asp Leu Glu Lys Arg Arg Ile His Tyr
 290 295 300
 Cys Asp Tyr Pro Gly Cys Thr Lys Val Tyr Thr Lys Ser Ser His Leu
 305 310 315 320
 Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Thr
 325 330 335
 Trp Glu Gly Cys Asp Trp Arg Phe Ala Arg Ser Asp Glu Leu Thr Arg
 340 345 350
 His Tyr Arg Lys His Thr Gly Ala Lys Pro Phe Gln Cys Gly Val Cys
 355 360 365
 Asn Arg Ser Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg
 370 375 380
 His Gln Asn
 385

5374

<210> 6159

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6159

Thr	Gly	Asn	Ser	Gln	Ser	Xaa	Phe	Thr	His	His	Leu	Pro	Val	Asn	Ser
1					5				10					15	

Gln	Asn	Xaa	Gln	Pro	Val	Arg	Tyr	Asn	Arg	Arg	Ser	Asn	Pro	Asp	Leu
			20					25					30		

Glu	Lys	Arg	Arg	Ile	His	Tyr	Cys	Asp	Tyr	Pro	Gly	Cys	Thr	Lys	Val
		35					40					45			

Tyr	Thr	Lys	Ser	Ser	His	Leu	Lys	Ala	His	Leu	Arg	Thr	His	Thr	Gly
		50				55					60				

Glu	Val	Ile	Ser	Thr	Arg	Leu	Phe	Cys	Phe	Asn	Leu	Gln	Lys	Glu	Gly
65					70					75				80	

Val

<210> 6160

<211> 142

<212> PRT

<213> Homo sapiens

<400> 6160

Val	Leu	Pro	Pro	Leu	Leu	Ile	Met	Leu	Val	Ile	Tyr	Ile	Lys	Ile	Phe
1				5					10					15	

Leu	Val	Ala	Cys	Arg	Gln	Leu	Gln	Arg	Thr	Glu	Leu	Met	Asp	His	Ser
			20					25					30		

Arg	Thr	Thr	Leu	Gln	Arg	Glu	Ile	His	Ala	Ala	Lys	Ser	Leu	Ala	Met
		35					40					45			

5375

Ile Val Gly Ile Phe Ala Leu Cys Trp Leu Pro Val His Ala Val Asn
 50 55 60
 Cys Val Thr Leu Phe Gln Pro Ala Gln Gly Lys Asn Lys Pro Lys Trp
 65 70 75 80
 Ala Met Asn Met Ala Ile Leu Leu Ser His Ala Asn Ser Val Val Asn
 85 90 95
 Pro Ile Val Tyr Ala Tyr Arg Asn Arg Asp Phe Arg Tyr Thr Phe His
 100 105 110
 Lys Ile Ile Ser Arg Tyr Leu Leu Cys Gln Ala Asp Val Lys Ser Gly
 115 120 125
 Asn Gly Gln Ala Gly Val Gln Pro Ala Leu Gly Val Gly Leu
 130 135 140

<210> 6161
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 6161
 Lys Ser Ile Glu Gln Lys Gly Met His Ala Val Phe Gln Trp Leu Arg
 1 5 10 15
 His Ala Phe Tyr Ser Leu Thr Ser Ile His Phe Phe Thr Thr Cys Ile
 20 25 30
 Lys Thr Asn Asp Leu Cys Phe Cys His Arg Gln Lys Gln Val Asp Thr
 35 40 45
 Gly Gly Leu Ala Leu Leu Ile Asn Phe Phe Ser Ile Arg Phe Ser Leu
 50 55 60
 Ile Met Leu Asn Phe
 65

<210> 6162
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 6162
 Phe Ser Lys His Asn Leu Ile Pro Asn Arg Phe Pro Leu Asn Gly Leu
 1 5 10 15

5376

Arg Cys Val Arg Thr Trp Ala Arg Ala Gly Arg Thr Ile Leu Ile Pro
 20 25 30
 Leu Phe Pro Ala Tyr His Leu Cys Ser Pro Phe Ser Ser Leu Pro Phe
 35 40 45
 Asn Cys Leu Leu Cys Phe Val Ser Tyr His Cys Cys Trp Cys Leu Glu
 50 55 60
 Pro Ala Ser Ser Thr Trp Gln Thr Ser Arg Pro Cys Gly Gln Arg Leu
 65 70 75 80
 Gly Leu His Ile Tyr Ile Ser Gln Met Ile Trp Val Asp Gly Asp Arg
 85 90 95

<210> 6163
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 6163
 Ile Leu Cys Thr Arg Ile Pro Gly Arg Val Phe Tyr Pro Trp Lys Gln
 1 5 10 15
 Val Ser Asp Tyr Phe Val Phe Thr Val Arg Val Ser Ser Leu Glu Met
 20 25 30
 Leu Thr Leu Lys Ser Val Phe Phe Ser Leu Tyr Leu Lys Ile Val Asn
 35 40 45
 Ile Leu Ile Ser Ser
 50

<210> 6164
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 6164
 Ile Arg His Glu Gly Ala Gly Pro Ser Gln Leu Arg Leu His Tyr Pro
 1 5 10 15
 Arg Ile Ser Met Ala Val Arg Gln Trp Val Ile Ala Leu Ala Leu Ala

5377

20 25 30
 Ala Leu Leu Val Val Asp Arg Glu Val Pro Val Ala Ala Gly Lys Leu
 35 40 45
 Pro Phe Ser Arg Met Pro Ile Cys Glu His Met Val Glu Ser Pro Thr
 50 55 60
 Cys Ser Gln Met Ser Asn Leu Val Cys Gly Thr Asp Gly Leu Thr Tyr
 65 70 75 80
 Thr Asn Glu Cys Gln Leu Cys Leu Ala Arg Ile Lys Thr Lys Gln Asp
 85 90 95
 Ile Gln Ile Met Lys Asp Gly Lys Cys
 100 105

<210> 6165
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 6165
 His Arg Leu Asp Phe Leu Gln Leu Met Ile Asp Ser Gln Asn Ser Lys
 1 5 10 15
 Glu Thr Glu Ser His Lys Ala Leu Ser Asp Leu Glu Leu Ala Ala Gln
 20 25 30
 Ser Ile Ile Phe Ile Phe Ala Gly Tyr Glu Thr Thr Ser Ser Val Leu
 35 40 45
 Ser Phe Thr Leu Tyr Glu Leu Ala Thr His Pro Asp Val Gln Gln Lys
 50 55 60
 Leu Gln Lys Gly Asp
 65

<210> 6166
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 6166
 His Arg Leu Asp Phe Leu Gln Leu Met Ile Asp Ser Gln Asn Ser Lys
 1 5 10 15

5378

Glu Thr Glu Ser His Lys Ala Leu Ser Asp Leu Glu Leu Ala Ala Gln
 20 25 30
 Ser Ile Ile Phe Ile Phe Ala Gly Tyr Glu Thr Thr Ser Ser Val Leu
 35 40 45
 Ser Phe Thr Leu Tyr Glu Leu Ala Thr His Pro Asp Val Gln Gln Lys
 50 55 60
 Leu Gln Lys Glu Ile Asp Ala Val Leu Pro Asn Lys Val Arg Gly
 65 70 75

<210> 6167

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6167

Xaa Glu His Pro Ser Thr Ala Pro Gly Lys Met Ser Thr Glu Gly Gly
 1 5 10 15
 Gly Arg Arg Cys Gln Ala Gln Val Ser Arg Arg Ile Ser Phe Ser Ala
 20 25 30
 Ser His Arg Leu Tyr Ser Lys Phe Leu Ser Asp Glu Glu Asn Leu Lys
 35 40 45
 Leu Phe Gly Lys Cys Asn Asn Pro Asn Gly His Gly His Asn Tyr Lys
 50 55 60
 Val Val Val Thr Val His Gly Glu Ile Asp Pro Ala Thr Gly Met Val
 65 70 75 80
 Met Asn Leu Ala Asp Leu Lys Lys Tyr Met Glu Glu Ala Ile Met Gln
 85 90 95
 Pro Leu Asp His Lys Asn Leu Asp Met Asp Val Pro Tyr Phe Ala Asp
 100 105 110

5379

Val Val Xaa Leu Pro Gly Leu
115

<210> 6168

<211> 192

<212> PRT

<213> Homo sapiens

<400> 6168

Pro Glu Gln Arg Gly Ser Ser Met Ala His Gly Pro Gly Ala Leu Met
1 5 10 15

Leu Lys Cys Val Val Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu
20 25 30

Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu Ser Thr Cys Pro Pro
35 40 45

Ser Ser Thr Thr Thr Gln Glu Asp Tyr Asp Arg Leu Arg Pro Leu Ser
50 55 60

Tyr Pro Met Thr Asp Val Phe Leu Ile Cys Phe Ser Val Val Asn Pro
65 70 75 80

Ala Ser Phe Gln Asn Val Lys Glu Glu Trp Val Pro Glu Leu Lys Glu
85 90 95

Tyr Ala Pro Asn Val Pro Phe Leu Leu Ile Gly Thr Gln Ile Asp Leu
100 105 110

Arg Asp Asp Pro Lys Thr Leu Ala Arg Leu Asn Asp Met Lys Glu Lys
115 120 125

Pro Ile Cys Val Glu Gln Gly Gln Lys Leu Ala Lys Glu Ile Gly Ala
130 135 140

Cys Cys Tyr Val Glu Cys Ser Ala Leu Thr Gln Lys Gly Leu Lys Thr
145 150 155 160

Val Phe Asp Glu Ala Ile Ile Ala Ile Leu Thr Pro Lys Lys His Thr
165 170 175

Val Lys Lys Arg Ile Gly Ser Arg Cys Ile Asn Cys Cys Leu Ile Thr
180 185 190

5380

<210> 6169

<211> 51

<212> PRT

<213> Homo sapiens

<400> 6169

Ala Lys Cys Arg Pro Val Cys Ser Cys Val Phe Phe Leu Trp Leu Pro
 1 5 10 15

His Leu Phe His Leu Gln Leu Asp Pro Pro Leu Gln Ile Glu Asn Ser
 20 25 30

Gly Gly Gly Trp Gly Leu Lys Ser Arg Glu Pro Pro Phe Cys Ser Thr
 35 40 45

Asn Phe Thr
 50

<210> 6170

<211> 353

<212> PRT

<213> Homo sapiens

<400> 6170

Arg Arg Arg Ser Val Leu Pro Val Thr Ala Ala Ala Ala Ala Ala Pro
 1 5 10 15

Asp Thr Cys Gly Gly Gly Gly Asp Pro Ala Ala Gly Ala Glu Met Trp
 20 25 30

Pro Leu Val Ala Ala Leu Leu Leu Gly Ser Ala Cys Cys Gly Ser Ala
 35 40 45

Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe Cys Asn
 50 55 60

Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala Gln Asn
 65 70 75 80

Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp Ile Tyr
 85 90 95

Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp Phe Ser
 100 105 110

Ser Ala Lys Ile Glu Val Ser Gln Leu Leu Lys Gly Asp Ala Ser Leu
 115 120 125

5381

Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr Thr Cys
 130 135 140
 Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu Leu Lys
 145 150 155 160
 Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu Ile Val
 165 170 175
 Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe Gly Ile
 180 185 190
 Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr Ile Ala
 195 200 205
 Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val Gly Ala
 210 215 220
 Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr Gly Leu
 225 230 235 240
 Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His Tyr Tyr
 245 250 255
 Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala Ile Leu
 260 265 270
 Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu Ser Leu
 275 280 285
 Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile Ser Gly
 290 295 300
 Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr Met Lys
 305 310 315 320
 Phe Val Ala Ser Asn Gln Lys Thr Ile Gln Pro Pro Arg Lys Ala Val
 325 330 335
 Glu Glu Pro Leu Asn Ala Phe Lys Glu Ser Lys Gly Met Met Asn Asp
 340 345 350

Glu

<210> 6171

<211> 358

<212> PRT

<213> Homo sapiens

5382

<400> 6171

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Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1              5              10              15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Trp Ala Leu
      20              25              30

Arg Ile Ser Arg Phe Leu Pro Gly Phe His Ser Phe Ala Pro Cys Thr
      35              40              45

Val Ala Pro Ser Leu Arg Ala Gln Pro Ala Lys Gln Arg Ala Pro Val
      50              55              60

Ala Gly Val Met Gln Arg Ala Arg Pro Thr Leu Trp Ala Ala Ala Leu
      65              70              75              80

Thr Leu Leu Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala
      85              90              95

Ser Ser Ala Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala
      100              105              110

Arg Ala Leu Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu
      115              120              125

Val Arg Glu Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu
      130              135              140

Gly Gln Pro Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg
      145              150              155              160

Cys Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp
      165              170              175

Gly Arg Gly Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala
      180              185              190

Tyr Leu Leu Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu
      195              200              205

Glu Asp Arg Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr
      210              215              220

His Arg Val Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile
      225              230              235              240

Ile Ile Lys Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp
      245              250              255

Tyr Glu Ser Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys

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5383

	260		265		270										
Arg	Glu	Thr	Glu	Tyr	Gly	Pro	Cys	Arg	Arg	Glu	Met	Glu	Asp	Thr	Leu
	275					280						285			
Asn	His	Leu	Lys	Phe	Leu	Asn	Val	Leu	Ser	Pro	Arg	Gly	Val	His	Ile
	290					295					300				
Pro	Asn	Cys	Asp	Lys	Lys	Gly	Phe	Tyr	Lys	Lys	Lys	Gln	Cys	Arg	Pro
305					310					315					320
Ser	Lys	Gly	Arg	Lys	Arg	Gly	Phe	Cys	Trp	Cys	Val	Asp	Lys	Tyr	Gly
				325					330					335	
Gln	Pro	Leu	Pro	Gly	Tyr	Thr	Thr	Lys	Gly	Lys	Glu	Asp	Val	His	Cys
			340					345					350		
Tyr	Ser	Met	Gln	Ser	Lys										
															355

<210> 6172

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

5384

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6172

Gln	Arg	Ile	Pro	Asp	Pro	Ala	Arg	Glu	Gly	Ser	Arg	Thr	Met	Glu	Ser
1				5				10					15		

Ser	Ser	Ser	Ser	Asn	Ser	Tyr	Phe	Ser	Val	Gly	Pro	Thr	Ser	Pro	Ser
			20				25					30			

Ala	Val	Val	Leu	Leu	Tyr	Ser	Lys	Glu	Leu	Lys	Lys	Trp	Asp	Glu	Phe
		35					40					45			

Glu	Asp	Ile	Leu	Glu	Glu	Arg	Arg	His	Val	Ser	Asp	Leu	Lys	Phe	Ala
	50					55					60				

Met	Lys	Cys	Tyr	Thr	Pro	Leu	Val	Tyr	Lys	Gly	Ile	Thr	Pro	Cys	Lys
65					70					75					80

Pro	Ile	Asp	Ile	Lys	Cys	Ser	Val	Leu	Asn	Ser	Glu	Xaa	Ile	His	Tyr
				85					90					95	

Val	Ile	Lys	Gln	Xaa	Ser	Lys	Xaa	Ser	Leu	Gln	Ser	Val	Gly	Val	Pro
			100					105					110		

Pro	Arg	Lys	Leu	Val	Gly	Phe	Arg	Trp	Asn	Gly	Ser	Gln	Xaa	Gly	Phe
		115					120					125			

Gly	Pro	Phe	Gly	Leu	Xaa	Leu	Xaa	Xaa	Ala	Ser	Phe
	130					135					140

<210> 6173

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

$\langle 222 \rangle$ (170)

<400> 6173

Arg Ser Val Ser Arg
225

5386

<210> 6174

<211> 183

<212> PRT

<213> Homo sapiens

<400> 6174

Ser Arg Leu Ser Leu Ser Arg Val Asn Cys Ser Gln Phe Leu Gly Leu
 1 5 10 15

Cys Ala Leu Pro Gly Cys Lys Phe Lys Asp Val Arg Arg Asn Val Gln
 20 25 30

Lys Asp Thr Glu Glu Leu Lys Ser Cys Gly Ile Gln Asp Ile Phe Val
 35 40 45

Phe Cys Thr Arg Gly Glu Leu Ser Lys Tyr Arg Val Pro Asn Leu Leu
 50 55 60

Asp Leu Tyr Gln Gln Cys Gly Ile Ile Thr His His His Pro Ile Ala
 65 70 75 80

Asp Gly Gly Thr Pro Asp Ile Ala Ser Cys Cys Glu Ile Met Glu Glu
 85 90 95

Leu Thr Thr Cys Leu Lys Asn Tyr Arg Lys Thr Leu Ile His Cys Tyr
 100 105 110

Gly Gly Leu Gly Arg Ser Cys Leu Val Ala Ala Cys Leu Leu Leu Tyr
 115 120 125

Leu Ser Asp Thr Ile Ser Pro Glu Gln Ala Ile Asp Ser Leu Arg Asp
 130 135 140

Leu Arg Gly Ser Gly Ala Ile Gln Thr Ile Lys Gln Tyr Asn Tyr Leu
 145 150 155 160

His Glu Phe Arg Asp Lys Leu Ala Ala His Leu Ser Ser Arg Asp Ser
 165 170 175

Gln Ser Arg Ser Val Ser Arg
 180

<210> 6175

<211> 594

<212> PRT

<213> Homo sapiens

5387

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6175

Arg Arg Arg Ala Ala Val Glu Glu Lys Arg Arg Gln Arg Leu Glu Glu
 1 5 10 15

Asp Lys Glu Arg His Glu Ala Val Val Arg Arg Thr Met Glu Arg Ser
 20 25 30

Gln Lys Pro Lys Gln Lys His Asn Arg Trp Ser Trp Gly Gly Ser Leu
 35 40 45

His Gly Ser Pro Ser Ile His Ser Ala Ala Arg Arg Leu Gln Leu Ser
 50 55 60

Pro Trp Glu Ser Ser Val Val Asn Arg Leu Leu Thr Pro Thr His Ser
 65 70 75 80

Phe Leu Ala Arg Ser Lys Ser Thr Ala Ala Leu Ser Gly Glu Ala Ala
 85 90 95

Ser Cys Ser Pro Ile Ile Met Pro Tyr Lys Ala Ala His Ser Arg Asn
 100 105 110

Ser Met Asp Arg Pro Lys Leu Phe Val Thr Pro Pro Glu Gly Ser Ser
 115 120 125

Arg Arg Arg Ile Ile His Gly Thr Ala Ser Tyr Lys Lys Glu Arg Glu
 130 135 140

Arg Glu Asn Xaa Leu Phe Leu Thr Ser Gly Thr Arg Arg Ala Val Ser
 145 150 155 160

Pro Ser Asn Pro Lys Ala Arg Gln Pro Ala Arg Ser Arg Leu Trp Leu
 165 170 175

Pro Ser Lys Ser Leu Pro His Leu Pro Gly Thr Pro Arg Pro Thr Ser
 180 185 190

Ser Leu Pro Pro Gly Ser Val Lys Ala Ala Pro Ala Gln Val Arg Pro
 195 200 205

Pro Ser Pro Gly Asn Ile Arg Pro Val Lys Arg Glu Val Lys Val Glu
 210 215 220

Pro Glu Lys Lys Asp Pro Glu Lys Glu Pro Gln Lys Val Ala Asn Glu
 225 230 235 240

5388

Pro Ser Leu Lys Gly Arg Ala Pro Leu Val Lys Val Glu Glu Ala Thr
 245 250 255
 Val Glu Glu Arg Thr Pro Ala Glu Pro Glu Val Gly Pro Ala Ala Pro
 260 265 270
 Ala Met Ala Pro Ala Pro Ala Ser Ala Pro Ala Pro Ala Ser Ala Pro
 275 280 285
 Ala Pro Ala Pro Val Pro Thr Pro Ala Met Val Ser Ala Pro Ser Ser
 290 295 300
 Thr Val Asn Ala Ser Ala Ser Val Lys Thr Ser Ala Gly Thr Thr Asp
 305 310 315 320
 Pro Glu Glu Ala Thr Arg Leu Leu Ala Glu Lys Arg Arg Leu Ala Arg
 325 330 335
 Glu Gln Arg Glu Lys Glu Glu Arg Glu Arg Arg Glu Gln Glu Glu Leu
 340 345 350
 Glu Arg Gln Lys Arg Glu Glu Leu Ala Gln Arg Val Ala Glu Glu Arg
 355 360 365
 Thr Thr Arg Arg Glu Glu Glu Ser Arg Arg Leu Glu Ala Glu Gln Ala
 370 375 380
 Arg Glu Lys Glu Glu Gln Leu Gln Arg Gln Ala Glu Glu Arg Ala Leu
 385 390 395 400
 Arg Glu Trp Glu Glu Ala Glu Arg Ala Gln Arg Gln Lys Glu Glu Glu
 405 410 415
 Ala Arg Val Arg Glu Glu Ala Glu Arg Val Arg Gln Glu Arg Glu Lys
 420 425 430
 His Phe Gln Arg Glu Glu Gln Glu Arg Leu Glu Arg Lys Lys Arg Leu
 435 440 445
 Glu Glu Ile Met Lys Arg Thr Arg Arg Thr Glu Ala Thr Asp Lys Lys
 450 455 460
 Thr Ser Asp Gln Arg Asn Gly Asp Ile Ala Lys Gly Ala Leu Thr Gly
 465 470 475 480
 Gly Thr Glu Val Ser Ala Leu Pro Cys Thr Thr Asn Ala Pro Gly Asn
 485 490 495
 Gly Lys Pro Val Gly Ser Pro His Val Val Thr Ser His Gln Ser Lys
 500 505 510

5389

Val Thr Val Glu Ser Thr Pro Asp Leu Glu Lys Gln Pro Asn Glu Asn
 515 520 525

Gly Val Ser Val Gln Asn Glu Asn Phe Glu Glu Ile Ile Asn Leu Pro
 530 535 540

Ile Gly Ser Lys Pro Ser Arg Leu Asp Val Thr Asn Ser Glu Ser Pro
 545 550 555 560

Glu Ile Pro Leu Asn Pro Ile Leu Ala Phe Asp Asp Glu Gly Thr Leu
 565 570 575

Gly Pro Leu Pro Gln Val Asp Gly Val Gln Thr Gln Gln Thr Ala Glu
 580 585 590

Val Ile

<210> 6176

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (270)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6176

Asn Thr Cys Glu Ser Asn His Gly Leu Gly Thr Thr Pro Pro Glu Asn
 1 5 10 15

Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys Arg
 20 25 30

Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln Thr
 35 40 45

Asn Glu Gln Cys Ala Gln Lys Ala Glu Pro Thr Glu Ser Cys Glu Gln
 50 55 60

Ile Ala Val Gln Val Asn Asn Gly Asp Ala Gly Arg Glu Met Pro Cys
 65 70 75 80

5390

Pro Leu Pro Cys Asp Glu Glu Ser Pro Glu Ala Glu Leu His Asn His
 85 90 95
 Gly Ile Gln Ile Asn Ser Cys Ser Val Arg Leu Val Asp Ile Lys Lys
 100 105 110
 Glu Lys Pro Phe Ser Asn Ser Lys Val Glu Cys Gln Ala Gln Ala Arg
 115 120 125
 Thr His His Asn Gln Ala Ser Asp Ile Ile Val Ile Ser Ser Glu Asp
 130 135 140
 Ser Glu Gly Ser Thr Asp Val Asp Glu Pro Leu Glu Val Phe Ile Ser
 145 150 155 160
 Ala Pro Arg Ser Glu Pro Val Ile Asn Asn Asp Asn Pro Leu Glu Ser
 165 170 175
 Asn Asp Glu Lys Glu Gly Gln Glu Ala Thr Cys Ser Arg Pro Gln Ile
 180 185 190
 Val Pro Glu Pro Met Asp Phe Arg Lys Leu Ser Thr Phe Arg Glu Ser
 195 200 205
 Phe Lys Lys Arg Val Ile Gly Gln Asp His Asp Phe Ser Glu Ser Ser
 210 215 220
 Glu Glu Glu Ala Pro Ala Glu Ala Ser Ser Gly Ala Leu Arg Ser Lys
 225 230 235 240
 His Gly Glu Lys Ala Pro Met Thr Ser Arg Ser Thr Ser Thr Trp Arg
 245 250 255
 Ile Pro Ser Arg Lys Arg Arg Phe Ser Ser Ser Asp Phe Xaa Asp Leu
 260 265 270
 Ser Asn Lys Cys Leu Tyr Leu Xaa Gln Lys Leu His Ser Leu Phe Ile
 275 280 285
 Leu Lys Asp Ile Thr
 290

<210> 6177

<211> 720

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5391

<222> (693)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6177

Asp	Thr	Gly	Pro	Thr	Gly	Ile	Lys	Tyr	Asp	Leu	Asp	Arg	His	Gln	Tyr
1				5					10					15	

Asn	Tyr	Val	Asp	Ala	Val	Cys	Tyr	Glu	Asn	Arg	Leu	His	Trp	Phe	Ala
			20					25					30		

Lys	Tyr	Phe	Pro	Tyr	Leu	Val	Leu	Leu	His	Thr	Leu	Ile	Phe	Leu	Ala
		35					40					45			

Cys	Ser	Asn	Phe	Trp	Phe	Lys	Phe	Pro	Arg	Thr	Ser	Ser	Lys	Leu	Glu
	50					55					60				

His	Phe	Val	Ser	Ile	Leu	Leu	Lys	Cys	Phe	Asp	Ser	Pro	Trp	Thr	Thr
65					70					75					80

Arg	Ala	Leu	Ser	Glu	Thr	Val	Val	Glu	Glu	Ser	Asp	Pro	Lys	Pro	Ala
				85					90					95	

Phe	Ser	Lys	Met	Asn	Gly	Ser	Met	Asp	Lys	Lys	Ser	Ser	Thr	Val	Ser
			100					105					110		

Glu	Asp	Val	Glu	Ala	Thr	Val	Pro	Met	Leu	Gln	Arg	Thr	Lys	Ser	Arg
		115					120					125			

Ile	Glu	Gln	Gly	Ile	Val	Asp	Arg	Ser	Glu	Thr	Gly	Val	Leu	Asp	Lys
	130					135					140				

Lys	Glu	Gly	Glu	Gln	Ala	Lys	Ala	Leu	Phe	Glu	Lys	Val	Lys	Lys	Phe
145					150					155					160

Arg	Thr	His	Val	Glu	Glu	Gly	Asp	Ile	Val	Tyr	Arg	Leu	Tyr	Met	Arg
				165				170						175	

Gln	Thr	Ile	Ile	Lys	Val	Ile	Lys	Phe	Ile	Leu	Ile	Ile	Cys	Tyr	Thr
		180					185						190		

Val	Tyr	Tyr	Val	His	Asn	Ile	Lys	Phe	Asp	Val	Asp	Cys	Thr	Val	Asp
		195					200					205			

Ile	Glu	Ser	Leu	Thr	Gly	Tyr	Arg	Thr	Tyr	Arg	Cys	Ala	His	Pro	Leu
	210					215					220				

Ala	Thr	Leu	Phe	Lys	Ile	Leu	Ala	Ser	Phe	Tyr	Ile	Ser	Leu	Val	Ile
225					230					235					240

Phe	Tyr	Gly	Leu	Ile	Cys	Met	Tyr	Thr	Leu	Trp	Trp	Met	Leu	Arg	Arg
			245						250					255	

5392

Ser Leu Lys Lys Tyr Ser Phe Glu Ser Ile Arg Glu Glu Ser Ser Tyr
 260 265 270

Ser Asp Ile Pro Asp Val Lys Asn Asp Phe Ala Phe Met Leu His Leu
 275 280 285

Ile Asp Gln Tyr Asp Pro Leu Tyr Ser Lys Arg Phe Ala Val Phe Leu
 290 295 300

Ser Glu Val Ser Glu Asn Lys Leu Arg Gln Leu Asn Leu Asn Asn Glu
 305 310 315 320

Trp Thr Leu Asp Lys Leu Arg Gln Arg Leu Thr Lys Asn Ala Gln Asp
 325 330 335

Lys Leu Glu Leu His Leu Phe Met Leu Ser Gly Ile Pro Asp Thr Val
 340 345 350

Phe Asp Leu Val Glu Leu Glu Val Leu Lys Leu Glu Leu Ile Pro Asp
 355 360 365

Val Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly Leu Lys Glu Leu
 370 375 380

Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro Ala Leu Ala Phe
 385 390 395 400

Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe Thr Asp Ile Lys
 405 410 415

Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu Glu Glu Leu His
 420 425 430

Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr Ile Val Ile Asp
 435 440 445

Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu Arg Leu Lys Ser Asn
 450 455 460

Leu Ser Lys Leu Pro Gln Val Val Thr Asp Val Gly Val His Leu Gln
 465 470 475 480

Lys Leu Ser Ile Asn Asn Glu Gly Thr Lys Leu Ile Val Leu Asn Ser
 485 490 495

Leu Lys Lys Met Ala Asn Leu Thr Glu Leu Glu Leu Ile Arg Cys Asp
 500 505 510

Leu Glu Arg Ile Pro His Ser Ile Phe Ser Leu His Asn Leu Gln Glu
 515 520 525

5393

Ile Asp Leu Lys Asp Asn Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser
 530 535 540
 Phe Gln His Leu His Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His
 545 550 555 560
 Ile Ala Tyr Ile Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg
 565 570 575
 Leu Tyr Leu Asn Arg Asn Lys Ile Glu Lys Ile Pro Thr Gln Leu Phe
 580 585 590
 Tyr Cys Arg Lys Leu Arg Tyr Leu Asp Leu Ser His Asn Asn Leu Thr
 595 600 605
 Phe Leu Pro Ala Asp Ile Gly Leu Leu Gln Asn Leu Gln Asn Leu Ala
 610 615 620
 Ile Thr Ala Asn Arg Ile Glu Thr Leu Pro Pro Glu Leu Phe Gln Cys
 625 630 635 640
 Arg Lys Leu Arg Ala Leu His Leu Gly Asn Asn Val Leu Gln Ser Leu
 645 650 655
 Pro Ser Arg Val Gly Glu Leu Thr Asn Leu Thr Gln Ile Glu Leu Arg
 660 665 670
 Gly Asn Arg Leu Glu Cys Leu Pro Val Glu Leu Gly Glu Cys Pro Leu
 675 680 685
 Leu Lys Arg Ser Xaa Leu Val Val Glu Glu Asp Leu Phe Asn Thr Leu
 690 695 700
 Pro Pro Glu Val Lys Glu Arg Leu Trp Arg Ala Asp Lys Glu Gln Ala
 705 710 715 720

<210> 6178

<211> 27

<212> PRT

<213> Homo sapiens

<400> 6178

Val Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Asp Gly Pro
 1 5 10 15

5394

Pro Gln Ser Pro Pro Asn Ile Tyr Tyr Lys Val
 20 25

<210> 6179

<211> 154

<212> PRT

<213> Homo sapiens

<400> 6179

Asp Leu Cys Arg Leu Ser Cys Gly Arg Lys Met Pro Lys Val Lys Arg
 1 5 10 15

Ser Arg Lys Ala Pro Pro Asp Gly Trp Glu Leu Ile Glu Pro Thr Leu
 20 25 30

Asp Glu Leu Asp Gln Lys Met Arg Glu Ala Glu Thr Glu Pro His Glu
 35 40 45

Gly Lys Arg Lys Val Glu Ser Leu Trp Pro Ile Phe Arg Ile His His
 50 55 60

Gln Lys Thr Arg Tyr Ile Phe Asp Leu Phe Tyr Lys Arg Lys Ala Ile
 65 70 75 80

Ser Arg Glu Leu Tyr Glu Tyr Cys Ile Lys Glu Gly Tyr Ala Asp Lys
 85 90 95

Asn Leu Ile Ala Lys Trp Lys Lys Gln Gly Tyr Glu Asn Leu Cys Cys
 100 105 110

Leu Arg Cys Ile Gln Thr Arg Asp Thr Asn Phe Gly Thr Asn Cys Ile
 115 120 125

Cys Arg Val Pro Lys Ser Lys Leu Glu Val Gly Arg Ile Ile Glu Cys
 130 135 140

Thr His Cys Gly Cys Arg Gly Cys Ser Gly
 145 150

<210> 6180

<211> 442

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

5395

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6180

Leu	Glu	Gln	Glu	Leu	Gly	Asp	Gly	Trp	Gly	His	Ser	Asp	Leu	His	Lys	1	5	10	15
Ala	Leu	Leu	Cys	Arg	Xaa	Pro	Pro	Leu	Pro	Glu	Pro	Asp	Ala	Met	Ser	20	25	30	
Ser	Lys	Gly	Ser	Val	Val	Leu	Ala	Tyr	Ser	Gly	Gly	Leu	Asp	Thr	Ser	35	40	45	
Cys	Ile	Leu	Val	Trp	Leu	Lys	Glu	Gln	Gly	Tyr	Asp	Val	Ile	Ala	Tyr	50	55	60	
Leu	Ala	Asn	Ile	Gly	Gln	Lys	Glu	Asp	Phe	Glu	Glu	Ala	Arg	Lys	Lys	65	70	75	80
Ala	Leu	Lys	Leu	Gly	Ala	Lys	Lys	Val	Phe	Ile	Glu	Asp	Val	Ser	Arg	85	90	95	
Glu	Phe	Val	Glu	Glu	Phe	Ile	Trp	Pro	Ala	Ile	Gln	Ser	Ser	Ala	Leu	100	105	110	
Tyr	Glu	Asp	Arg	Tyr	Leu	Leu	Gly	Thr	Ser	Leu	Ala	Arg	Pro	Cys	Ile	115	120	125	
Ala	Arg	Lys	Gln	Val	Glu	Ile	Ala	Gln	Arg	Glu	Gly	Ala	Lys	Tyr	Val	130	135	140	
Ser	His	Gly	Ala	Thr	Gly	Lys	Gly	Asn	Asp	Gln	Val	Arg	Phe	Glu	Leu	145	150	155	160
Ser	Cys	Tyr	Ser	Leu	Ala	Pro	Gln	Ile	Lys	Val	Ile	Ala	Pro	Trp	Arg	165	170	175	
Met	Pro	Glu	Phe	Tyr	Asn	Arg	Phe	Lys	Gly	Arg	Asn	Asp	Leu	Met	Glu	180	185	190	
Tyr	Ala	Lys	Gln	His	Gly	Ile	Pro	Ile	Pro	Val	Thr	Pro	Lys	Asn	Pro	195	200	205	
Trp	Ser	Met	Asp	Glu	Asn	Leu	Met	His	Ile	Ser	Tyr	Glu	Ala	Gly	Ile	210	215	220	
Leu	Glu	Asn	Pro	Lys	Asn	Gln	Ala	Pro	Pro	Gly	Leu	Tyr	Thr	Lys	Thr	225	230	235	240
Gln	Asp	Pro	Ala	Lys	Ala	Pro	Asn	Thr	Pro	Asp	Ile	Leu	Glu	Ile	Glu	245	250	255	

5396

Phe Lys Lys Gly Val Pro Val Lys Val Thr Asn Val Lys Asp Gly Thr
260 265 270

Thr His Gln Thr Ser Leu Glu Leu Phe Met Tyr Leu Asn Glu Val Ala
275 280 285

Gly Lys His Gly Val Gly Arg Ile Asp Ile Val Glu Asn Arg Phe Ile
290 295 300

Gly Met Lys Ser Arg Gly Ile Tyr Glu Thr Pro Ala Gly Thr Ile Leu
305 310 315 320

Tyr His Ala His Leu Asp Ile Glu Ala Phe Thr Met Asp Arg Glu Val
325 330 335

Arg Lys Ile Lys Gln Gly Leu Gly Leu Lys Phe Ala Glu Leu Val Tyr
340 345 350

Thr Gly Phe Trp His Ser Pro Glu Cys Glu Phe Val Arg His Cys Ile
355 360 365

Ala Lys Ser Gln Glu Arg Val Glu Gly Lys Val Gln Val Ser Val Leu
370 375 380

Lys Gly Gln Val Tyr Ile Leu Gly Arg Glu Ser Pro Leu Ser Leu Tyr
385 390 395 400

Asn Glu Glu Leu Val Ser Met Asn Val Gln Gly Asp Tyr Glu Pro Thr
405 410 415

Asp Ala Thr Gly Phe Ile Asn Ile Asn Ser Leu Arg Leu Lys Glu Tyr
420 425 430

His Arg Leu Gln Ser Lys Val Thr Ala Lys
435 440

<210> 6181

<211> 155

<212> PRT

<213> Homo sapiens

<400> 6181

Asp Ser Tyr Phe Asp Arg Ile Cys Ser His Ser Ser Cys Lys Leu Gln
1 5 10 15

Met Tyr Lys Leu His Leu Tyr Phe Tyr Arg Val Val Met Phe Tyr Met
20 25 30

Cys Met Val Gln Glu Lys Ile Gly Ser Asn Gln Ser Ala Val Asp Val

5397

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          35              40              45
Pro Lys Cys Lys His Arg His Thr His Ala His Thr His Lys His Thr
  50              55              60
His Ser Ala Leu Arg Lys Gly Gln Val Ile Ser His Pro Asn Phe Thr
  65              70              75              80
Ser Thr Asp Pro Leu Ala Pro Thr Pro Ala Ser Thr Val Thr Ser Lys
          85              90              95
Ala Arg Ala Thr Cys Ala His Gln Thr Cys Ile Lys Gln Leu Ala Gly
          100              105              110
Asp Gly Cys Gly Ala Gly Gly Leu Ser Asp Gly Ser Leu Leu Leu Pro
          115              120              125
Leu Leu Arg Val Lys Leu Leu Ser Phe Leu Arg Val Tyr Leu Cys Gln
          130              135              140
Val Cys Ala Phe Asn Cys Phe Tyr Phe Val Phe
          145              150              155

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<210> 6182

<211> 401

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (309)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (311)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (377)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6182

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Asn Ile Lys Lys Arg Asp Glu Glu Leu Thr Glu Lys Met Lys Lys Ala
  1              5              10              15

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Glu Glu Glu Tyr Lys Leu Glu Lys Glu Glu Glu Ile Ser Asn Leu Lys
          20              25              30

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5398

Ala Ala Phe Glu Lys Asn Ile Asn Thr Glu Arg Thr Leu Lys Thr Gln
 35 40 45
 Ala Val Asn Lys Leu Ala Glu Ile Met Asn Arg Lys Asp Phe Lys Ile
 50 55 60
 Asp Arg Lys Lys Ala Asn Thr Gln Asp Leu Arg Lys Lys Glu Lys Glu
 65 70 75 80
 Asn Arg Lys Leu Gln Leu Glu Leu Asn Gln Glu Arg Glu Lys Phe Asn
 85 90 95
 Gln Met Val Val Lys His Gln Lys Glu Leu Asn Asp Met Gln Ala Gln
 100 105 110
 Leu Val Glu Glu Cys Ala His Arg Asn Glu Leu Gln Met Gln Leu Ala
 115 120 125
 Ser Lys Glu Ser Asp Ile Glu Gln Leu Arg Ala Lys Leu Leu Asp Leu
 130 135 140
 Ser Asp Ser Thr Ser Val Ala Ser Phe Pro Ser Ala Asp Glu Thr Asp
 145 150 155 160
 Gly Asn Leu Pro Glu Ser Arg Ile Glu Gly Trp Leu Ser Val Pro Asn
 165 170 175
 Arg Gly Asn Ile Lys Arg Tyr Gly Trp Lys Lys Gln Tyr Val Val Val
 180 185 190
 Ser Ser Lys Lys Ile Leu Phe Tyr Asn Asp Glu Gln Asp Lys Glu Gln
 195 200 205
 Ser Asn Pro Ser Met Val Leu Asp Ile Asp Lys Leu Phe His Val Arg
 210 215 220
 Pro Val Thr Gln Gly Asp Val Tyr Arg Ala Glu Thr Glu Glu Ile Pro
 225 230 235 240
 Lys Ile Phe Gln Ile Leu Tyr Ala Asn Glu Gly Glu Cys Arg Lys Asp
 245 250 255
 Val Glu Met Glu Pro Val Gln Gln Ala Glu Lys Thr Asn Phe Gln Asn
 260 265 270
 His Lys Gly His Glu Phe Ile Pro Thr Leu Tyr His Phe Pro Ala Asn
 275 280 285
 Cys Asp Ala Cys Ala Lys Pro Leu Trp His Val Phe Lys Pro Pro Pro
 290 295 300

5399

Ala Leu Glu Cys Xaa Arg Xaa His Val Lys Cys His Arg Asp His Leu
 305 310 315 320

Asp Lys Lys Glu Asp Leu Ile Cys Pro Cys Lys Val Ser Tyr Asp Val
 325 330 335

Thr Ser Ala Arg Asp Met Leu Leu Leu Ala Cys Ser Gln Asp Glu Gln
 340 345 350

Lys Lys Trp Val Thr His Leu Val Lys Lys Ile Pro Lys Asn Pro Pro
 355 360 365

Ser Gly Phe Val Arg Ala Ser Pro Xaa Thr Leu Ser Thr Arg Ser Thr
 370 375 380

Ala Asn Gln Ser Phe Arg Lys Val Val Lys Asn Thr Ser Gly Lys Thr
 385 390 395 400

Ser

<210> 6183

<211> 337

<212> PRT

<213> Homo sapiens

<400> 6183

Gln Ser Arg Ser Asp Ser Arg Val Asp Pro Arg Val Arg Gly Pro Pro
 1 5 10 15

Gly Pro Val Gly Pro Ser Gly Lys Glu Gly Asn Pro Gly Pro Leu Gly
 20 25 30

Pro Ile Gly Pro Pro Gly Val Arg Gly Ser Val Gly Glu Ala Gly Pro
 35 40 45

Glu Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
 50 55 60

Gly His Leu Thr Ala Ala Leu Gly Asp Ile Met Gly His Tyr Asp Glu
 65 70 75 80

Ser Met Pro Asp Pro Leu Pro Glu Phe Thr Glu Asp Gln Ala Ala Pro
 85 90 95

Asp Asp Lys Asn Lys Thr Asp Pro Gly Val His Ala Thr Leu Lys Ser
 100 105 110

5400

Leu Ser Ser Gln Ile Glu Thr Met Arg Ser Pro Asp Gly Ser Lys Lys
 115 120 125
 His Pro Ala Arg Thr Cys Asp Asp Leu Lys Leu Cys His Ser Ala Lys
 130 135 140
 Gln Ser Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Ser Val Glu Asp
 145 150 155 160
 Ala Ile Lys Val Tyr Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser
 165 170 175
 Ala Asn Pro Ser Ser Val Pro Arg Lys Thr Trp Trp Ala Ser Lys Ser
 180 185 190
 Pro Asp Asn Lys Pro Val Trp Tyr Gly Leu Asp Met Asn Arg Gly Ser
 195 200 205
 Gln Phe Ala Tyr Gly Asp His Gln Ser Pro Asn Thr Ala Ile Thr Gln
 210 215 220
 Met Thr Phe Leu Arg Leu Leu Ser Lys Glu Ala Ser Gln Asn Ile Thr
 225 230 235 240
 Tyr Ile Cys Lys Asn Ser Val Gly Tyr Met Asp Asp Gln Ala Lys Asn
 245 250 255
 Leu Lys Lys Ala Val Val Leu Lys Gly Ala Asn Asp Leu Asp Ile Lys
 260 265 270
 Ala Glu Gly Asn Ile Arg Phe Arg Tyr Ile Val Leu Gln Asp Thr Cys
 275 280 285
 Ser Lys Arg Asn Gly Asn Val Gly Lys Thr Val Phe Glu Tyr Arg Thr
 290 295 300
 Gln Asn Val Ala Arg Leu Pro Ile Ile Asp Leu Ala Pro Val Asp Val
 305 310 315 320
 Gly Gly Thr Asp Gln Glu Phe Gly Val Glu Ile Gly Pro Val Cys Phe
 325 330 335

Val

<210> 6184

<211> 104

<212> PRT

<213> Homo sapiens

5401

<400> 6184

Leu His Cys Phe Tyr Ser Gly Leu Gly Phe Arg Lys Thr Gly Thr Val
1 5 10 15

Leu Ser Val His Arg Asn Thr Cys Gln Cys Gln Gly Phe Gln Ser Gly
20 25 30

Val Tyr Pro Asn Trp Ser Gly Arg Glu Gly Gln Thr His Ser Gln Arg
35 40 45

Pro Pro Cys Pro Arg Ser Asp Ser Ser Pro Leu Ala Ala Pro Thr Gly
50 55 60

Ala Leu Gly Trp Ser Gly Ser Trp Gly Ser Val Pro Leu Ile Ala Gly
65 70 75 80

Leu Cys Ser Pro Gly Phe Gly Ile Tyr Val Gly Thr Thr Pro Gly Leu
85 90 95

Leu Ser Lys Gly Leu Trp Leu Leu
100

<210> 6185

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6185

Gly Leu Thr Trp Ala Phe Arg Tyr Arg Pro Ala Gly Ile Ile Val Met
1 5 10 15

Ala Leu Leu Gly Met Phe Asn Val His Arg His Gly Ala Ile Asn Ser
20 25 30

Ala Ala Ile Leu Leu Tyr Ala Leu Thr Cys Cys Ile Ser Gly Tyr Val
35 40 45

Ser Ser His Phe Tyr Arg Gln Ile Gly Gly Glu Arg Trp Val Trp Glu
50 55 60

His His Ser His His Gln Ser Leu Leu Trp
65 70

<210> 6186

<211> 134

<212> PRT

5402

<213> Homo sapiens

<400> 6186

```

Thr Leu Leu Glu Ala Leu Thr Val Ala Val Val Val Thr Phe Tyr Asp
 1             5             10             15

Val Tyr Ile Ile Leu Gln Ala Phe Ile Leu Thr Thr Thr Val Phe Phe
      20             25             30

Gly Leu Thr Val Tyr Thr Leu Gln Ser Lys Lys Asp Phe Ser Lys Phe
      35             40             45

Gly Ala Gly Leu Phe Ala Leu Leu Trp Ile Leu Cys Leu Ser Gly Phe
      50             55             60

Leu Lys Phe Phe Phe Tyr Ser Glu Ile Met Glu Leu Val Leu Ala Ala
 65             70             75             80

Ala Gly Ala Leu Leu Phe Cys Gly Phe Ile Ile Tyr Asp Thr His Ser
      85             90             95

Leu Met His Lys Leu Ser Pro Glu Glu Tyr Val Leu Ala Ala Ile Ser
      100            105            110

Leu Tyr Leu Asp Ile Ile Asn Leu Phe Leu His Leu Leu Arg Phe Leu
      115            120            125

Glu Ala Val Asn Lys Lys
      130

```

<210> 6187

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6187

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Asp Tyr Ala Xaa Thr Pro Gln Gly Leu Cys Tyr Asp Val Ala Cys Thr
 1             5             10             15

Arg Lys Leu Gly Pro Leu Glu Gly Ser Ser Arg Ala Ala Ala Ala Ala
      20             25             30

Phe Gly Glu Ser Ala Gly Gln Met Ser Asn Glu Arg Gly Phe Glu Asn
      35             40             45

```

5403

Val Glu Leu Gly Val Ile Gly Lys Lys Lys Lys Val Pro Arg Arg Val
 50 55 60
 Ile His Phe Val Ser Gly Glu Thr Met Glu Glu Tyr Ser Thr Asp Glu
 65 70 75 80
 Asp Glu Val Asp Gly Leu Glu Lys Lys Asp Val Leu Pro Thr Val Asp
 85 90 95
 Pro Thr Lys Leu Thr Trp Gly Pro Tyr Leu Trp Phe Tyr Met Leu Arg
 100 105 110
 Ala Ala Thr Ser Thr Leu Ser Val Cys Asp Phe Leu Gly Glu Lys Ile
 115 120 125
 Ala Ser Val Leu Gly Ile Ser Thr Pro Lys Tyr Gln Tyr Ala Ile Asp
 130 135 140
 Glu Tyr Tyr Arg Met Lys Lys Glu Glu Glu Glu Glu Glu Glu Asn
 145 150 155 160
 Arg Met Ser Glu Glu Ala Glu Lys Gln Tyr Gln Gln Asn Lys Leu Gln
 165 170 175
 Thr Asp Ser Ile Val Gln Thr Asp Gln Pro Glu Thr Val Ile Ser Ser
 180 185 190
 Ser Phe Val Asn Val Asn Phe Glu Met Glu Gly Asp Ser Glu Val Ile
 195 200 205
 Met Glu Ser Lys Gln Asn Pro Val Ser Val Pro Pro
 210 215 220

<210> 6188

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

5404

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6188
 Glu Arg Cys Gly Xaa Xaa Arg Glu Ala Gln Glu Gly Asp Leu Gln Gly
 1 5 10 15
 Gln Glu Gly Ala Glu Ala Ser His Ala Gly Gly Pro Ala Ala Asp His
 20 25 30
 Tyr Ser Gly Xaa Ala His Xaa Gly Arg Gly Arg Ala Leu Asp Arg Gly
 35 40 45
 Val Cys Val Arg Gly His Ala Pro His His His Arg Val Ser Pro Ala
 50 55 60
 Xaa Gly Arg Gly Pro His Arg Gln Gly Glu Glu Cys Ser Gly Gly Gly
 65 70 75 80
 Arg Lys Gln Lys Met Ala Phe Ile Phe Arg Asp Val His Val Ala Glu
 85 90 95
 Leu Leu Ser Xaa Xaa His Xaa
 100

5405

<210> 6189

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6189

Lys	Phe	Trp	Leu	Gln	Lys	Xaa	His	Phe	Leu	Cys	Ala	Asn	Lys	Asn	Val
1				5					10					15	

Cys	Ile	Lys	Tyr	Asp	Val	Pro	Pro	Thr	Trp	Thr	His	Ser	Val	Pro	His
			20					25					30		

Lys	Ala	Lys	Pro	Thr	Ala	Ala	Ala	Thr	Ser	Leu	Gly	Leu	Arg	Cys	Ser
		35					40					45			

Arg	Cys	Phe	Phe	Gln	Asp	Arg	Asn	Gln	Asn	Val	Arg	Asn	Thr	Ala	Glu
	50					55					60				

Arg	Gly	His	Leu	Glu	Thr	Lys	Arg	Arg	Met	Arg	Ser	Ser	Ala	Glu	Val
65					70					75				80	

Thr	Gly	Lys	Ser	Gln	Asn	Ser	Asn	Thr	Leu	Ala	Gly	Ala	Trp	Gly	Val
				85					90					95	

Lys	Asn	Arg	Arg	Arg	Glu	Glu	Ala	Phe	Pro	Ser	Leu	Gln	Arg	Arg	Asn
		100						105					110		

Gln	Gly	Gln	Pro	Lys	Leu	Pro	Gly	Ser	Gln	Asn	Gln	Phe	Phe	Tyr	Gln
		115					120					125			

Ala	Val	Pro	Leu	Leu	Ser	Phe	Gln	Leu	Leu	Ala	Thr	Gly	Arg	Cys	Cys
	130					135					140				

Ser	Lys	Gly	Phe	Ala	Leu	Arg	Leu	Gln	Glu	Glu	Ala	Ala	Gly	Arg	Thr
145					150					155				160	

Ala	Gly	Val	Leu	Gly	Phe
				165	

<210> 6190

<211> 90

5406

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6190

Ser	Leu	Gln	Val	Glu	Lys	Pro	Leu	Tyr	Pro	Phe	Asn	Pro	Leu	Trp	Pro
1				5				10					15		

Ser	Phe	Pro	Xaa	Xaa	Val	Asp	Ala	Thr	Arg	Glu	Thr	Asn	Arg	Leu	Gly
			20					25					30		

Arg	Leu	Ile	Asn	His	Ser	Lys	Cys	Gly	Asn	Cys	Gln	Thr	Lys	Leu	His
		35					40					45			

Asp	Ile	Asp	Gly	Val	Pro	His	Leu	Ile	Leu	Ile	Ala	Ser	Arg	Asp	Ile
	50					55					60				

Ala	Ala	Gly	Glu	Glu	Leu	Leu	Tyr	Asp	Tyr	Gly	Asp	Arg	Ser	Lys	Ala
65					70					75					80

Ser	Ile	Glu	Ala	His	Pro	Trp	Leu	Lys	His
				85				90	

<210> 6191

<211> 162

<212> PRT

<213> Homo sapiens

<400> 6191

Tyr	Lys	Met	Thr	Glu	Pro	Gly	Ala	Ser	Pro	Glu	Asp	Pro	Trp	Val	Lys
1				5					10				15		

Val	Glu	Tyr	Ala	Tyr	Ser	Asp	Asn	Ser	Leu	Asp	Pro	Gly	Leu	Phe	Val
			20					25					30		

Glu	Ser	Thr	Arg	Lys	Gly	Ser	Val	Val	Ser	Arg	Ala	Asn	Ser	Ile	Gly
		35					40					45			

Ser	Thr	Ser	Ala	Ser	Ser	Val	Pro	Asn	Thr	Asp	Asp	Glu	Asp	Ser	Asp
	50					55					60				

5407

Tyr His Gln Glu Ala Tyr Lys Glu Ser Tyr Lys Asp Arg Arg Arg Arg
 65 70 75 80
 Ala His Thr Gln Ala Glu Gln Lys Arg Arg Asp Ala Ile Lys Arg Gly
 85 90 95
 Tyr Asp Asp Leu Gln Thr Ile Val Pro Thr Cys Gln Gln Gln Asp Phe
 100 105 110
 Ser Ile Gly Ser Gln Lys Leu Ser Lys Ala Ile Val Leu Gln Lys Thr
 115 120 125
 Ile Asp Tyr Ile Gln Phe Leu His Lys Glu Lys Lys Lys Gln Glu Glu
 130 135 140
 Glu Val Ser Arg Tyr Ala Arg Met Tyr Arg Pro Lys Asp His Glu Ser
 145 150 155 160
 Glu Leu

<210> 6192
 <211> 350
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

5408

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6192

Gly	Thr	Ser	Gly	Cys	Trp	Leu	Leu	Leu	Val	Leu	Val	Leu	Val	Leu	Leu
1				5					10					15	

Val	Ser	Pro	Arg	Gly	Cys	Arg	Ala	Arg	Arg	Gly	Leu	Arg	Gly	Leu	Leu
			20					25					30		

Met	Ala	His	Ser	Gln	Arg	Leu	Leu	Phe	Arg	Ile	Gly	Tyr	Ser	Leu	Tyr
		35					40					45			

Thr	Arg	Thr	Trp	Leu	Gly	Tyr	Leu	Phe	Tyr	Arg	Gln	Gln	Leu	Arg	Arg
	50					55					60				

Ala	Arg	Asn	Arg	Tyr	Pro	Lys	Gly	His	Ser	Lys	Thr	Gln	Pro	Arg	Leu
65						70				75					80

Phe	Asn	Gly	Val	Lys	Val	Leu	Pro	Ile	Pro	Val	Leu	Ser	Asp	Asn	Tyr
				85					90					95	

Ser	Tyr	Leu	Ile	Ile	Asp	Thr	Gln	Ala	Gln	Leu	Ala	Val	Ala	Val	Asp
		100						105					110		

Pro	Ser	Asp	Pro	Arg	Ala	Val	Gln	Ala	Ser	Ile	Glu	Lys	Xaa	Gly	Val
		115					120					125			

Thr	Leu	Val	Ala	Ile	Leu	Xaa	Thr	His	Lys	His	Trp	Xaa	His	Xaa	Gly
	130					135					140				

Xaa	Asn	Arg	Xaa	Leu	Xaa	Arg	Gly	His	Arg	Asp	Cys	Arg	Val	Tyr	Gly
145				150						155					160

Ser	Pro	Gln	Asp	Gly	Ile	Pro	Tyr	Leu	Thr	His	Pro	Leu	Cys	His	Gln
			165					170						175	

Asp	Val	Val	Ser	Val	Gly	Arg	Leu	Gln	Ile	Arg	Ala	Leu	Ala	Thr	Pro
		180						185					190		

Gly	His	Thr	Gln	Gly	His	Leu	Val	Tyr	Leu	Leu	Asp	Gly	Glu	Pro	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5409

195	200	205
Lys Gly Pro Ser Cys Leu Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly		
210	215	220
Cys Gly Arg Thr Phe Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu		
225	230	235 240
Asp Thr Val Leu Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His		
245	250	255
Glu Tyr Ala Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu		
260	265	270
Asn Leu Ala Arg Glu Arg Lys Met Gln Trp Val Gln Arg Gln Arg Leu		
275	280	285
Glu Arg Lys Gly Thr Cys Pro Ser Thr Leu Gly Glu Glu Arg Ser Tyr		
290	295	300
Asn Pro Phe Leu Arg Thr His Cys Leu Ala Leu Gln Glu Ala Leu Gly		
305	310	315 320
Pro Gly Pro Gly Pro Thr Gly Asp Asp Asp Tyr Ser Arg Ala Gln Leu		
325	330	335
Leu Glu Glu Leu Arg Arg Leu Lys Asp Met His Lys Ser Lys		
340	345	350

<210> 6193

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6193

Ile Ser Tyr Ser Arg Trp Lys Thr Leu His Thr Val Leu Pro Gln Xaa
1 5 10 15

Ile Arg Xaa Leu Leu Phe Cys Leu Leu Gln Lys Asp Pro Cys Pro Val

5410

	20		25		30
Ala Glu Arg Gly Asn Asp Lys Asp Phe Thr Leu Asn Asp Phe Gly Phe	35	40	45		
Met Ile Phe His Ser Pro Tyr Cys Lys Leu Val Gln Lys Ser Leu Ala	50	55	60		
Arg Met Leu Leu Asn Asp Phe Leu Asn Asp Gln Asn Arg Asp Lys Asn	65	70	75	80	
Ser Ile Tyr Ser Gly Leu Glu Ala Phe Gly Asp Val Lys Leu Glu Asp	85	90	95		
Thr Tyr Phe Asp Arg Asp Val Glu Lys Ala Phe Met Lys Ala Ser Ser	100	105	110		
Glu Leu Phe Ser Gln Lys Thr Lys Ala Ser Leu Leu Val Ser Asn Gln	115	120	125		
Asn Gly Asn Met Tyr Thr Ser Ser Val Tyr Gly Ser Leu Ala Ser Val	130	135	140		
Leu Ala Gln Tyr Ser Pro Gln Gln Leu Ala Gly Lys Arg Ile Gly Val	145	150	155	160	
Phe Ser Tyr Gly Ser Gly Leu Ala Ala Thr Leu Tyr Ser Leu Lys Val	165	170	175		
Thr Gln Asp Ala Thr Pro Gly Ser Ala Leu Asp Lys Ile Thr Ala Ser	180	185	190		
Leu Cys Asp Leu Lys Ser Lys Ala	195	200			

<210> 6194

<211> 113

<212> PRT

<213> Homo sapiens

<400> 6194

Glu Glu Leu Arg Glu Ser Ala Ala Ala Gly Ser Ala Asp Ala Met Asp	1	5	10	15
Asn Val Gln Pro Lys Ile Lys His Arg Pro Phe Cys Phe Ser Val Lys	20	25	30	
Gly His Val Lys Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr	35	40	45	

5411

Thr Val Phe Met Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr
 50 55 60

Thr Thr Leu Thr Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val
 65 70 75 80

Cys Cys Leu Ala Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn
 85 90 95

Pro Ser Gly Pro Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val
 100 105 110

Leu

<210> 6195

<211> 480

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (392)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6195

Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu
 1 5 10 15

Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr
 20 25 30

Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala
 35 40 45

Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala
 50 55 60

Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu
 65 70 75 80

Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe
 85 90 95

5412

Asn	Asp	Arg	Val	Phe	Ala	Ser	Glu	Leu	Asn	Ala	Gly	Ile	Ile	Lys	Thr	100	105	110	
Asp	Gln	Asn	Tyr	Glu	Lys	Met	Met	Phe	Lys	Glu	Ala	Leu	Lys	Thr	Gly	115	120	125	
Phe	Phe	Glu	Phe	Gln	Ala	Ala	Lys	Asp	Lys	Tyr	Arg	Glu	Leu	Ala	Val	130	135	140	
Glu	Gly	Met	His	Arg	Glu	Leu	Val	Phe	Arg	Phe	Ile	Glu	Val	Gln	Thr	145	150	155	160
Leu	Leu	Leu	Ala	Pro	Phe	Cys	Pro	His	Leu	Cys	Glu	His	Ile	Trp	Thr	165	170	175	
Leu	Leu	Gly	Lys	Pro	Asp	Ser	Ile	Met	Asn	Ala	Ser	Trp	Pro	Val	Ala	180	185	190	
Gly	Pro	Val	Xaa	Glu	Val	Leu	Ile	His	Ser	Ser	Gln	Tyr	Leu	Met	Glu	195	200	205	
Val	Thr	His	Asp	Leu	Arg	Leu	Arg	Leu	Lys	Asn	Tyr	Met	Met	Pro	Ala	210	215	220	
Lys	Gly	Lys	Lys	Thr	Asp	Lys	Gln	Pro	Leu	Gln	Lys	Pro	Ser	His	Cys	225	230	235	240
Thr	Ile	Tyr	Val	Ala	Lys	Asn	Tyr	Pro	Pro	Trp	Gln	His	Thr	Thr	Leu	245	250	255	
Ser	Val	Leu	Arg	Lys	His	Phe	Glu	Ala	Asn	Asn	Gly	Lys	Leu	Pro	Asp	260	265	270	
Asn	Lys	Val	Ile	Ala	Ser	Glu	Leu	Gly	Ser	Met	Pro	Glu	Leu	Lys	Lys	275	280	285	
Tyr	Met	Lys	Lys	Val	Met	Pro	Phe	Val	Ala	Met	Ile	Lys	Glu	Asn	Leu	290	295	300	
Glu	Lys	Met	Gly	Pro	Arg	Ile	Leu	Asp	Leu	Gln	Leu	Glu	Phe	Asp	Glu	305	310	315	320
Lys	Ala	Val	Leu	Met	Glu	Asn	Ile	Val	Tyr	Leu	Thr	Asn	Ser	Leu	Glu	325	330	335	
Leu	Glu	His	Ile	Glu	Val	Lys	Phe	Ala	Ser	Glu	Ala	Glu	Asp	Lys	Ile	340	345	350	
Arg	Glu	Asp	Cys	Cys	Pro	Gly	Lys	Pro	Leu	Asn	Val	Phe	Arg	Ile	Glu	355	360	365	

5413

Pro Gly Val Ser Val Ser Leu Val Asn Pro Gln Pro Ser Asn Gly His
 370 375 380

Phe Ser Thr Lys Ile Glu Ile Xaa Gln Gly Asp Asn Cys Asp Ser Ile
 385 390 395 400

Ile Arg Arg Leu Met Lys Met Asn Arg Gly Ile Lys Asp Leu Ser Lys
 405 410 415

Val Lys Leu Met Arg Phe Asp Asp Pro Leu Leu Gly Pro Arg Arg Val
 420 425 430

Pro Val Leu Gly Lys Glu Tyr Thr Glu Lys Thr Pro Ile Ser Glu His
 435 440 445

Ala Val Phe Asn Val Asp Leu Met Ser Lys Lys Ile His Leu Thr Glu
 450 455 460

Asn Gly Ile Arg Val Asp Ile Gly Asp Thr Ile Ile Tyr Leu Val His
 465 470 475 480

<210> 6196

<211> 110

<212> PRT

<213> Homo sapiens

<400> 6196

Met Lys Thr Arg Thr Ile Ser Phe Ala Arg Ile Pro Asn Leu Ala Arg
 1 5 10 15

Pro Ala Ala Pro Ser Leu Arg Pro Asp Asp Val Phe Ile Ala Val Lys
 20 25 30

Thr Thr Arg Lys Asn His Gly Pro Arg Leu Arg Leu Leu Leu Arg Thr
 35 40 45

Trp Ile Ser Arg Ala Arg Gln Gln Thr Phe Ile Phe Thr Asp Gly Asp
 50 55 60

Asp Pro Glu Leu Glu Leu Gln Gly Gly Asp Arg Val Ile Asn Thr Asn
 65 70 75 80

Cys Ser Ala Val Arg Thr Arg Gln Ala Leu Cys Cys Lys Met Ser Val
 85 90 95

5414

Glu Tyr Asp Lys Phe Ile Glu Ser Gly Arg Lys Trp Phe Cys
 100 105 110

<210> 6197

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6197

Trp Leu Asn Ala Ala Lys Met Arg Ile Lys Gly Met Lys Trp Phe Asn
 1 5 10 15

Thr Leu Ser His Asn Arg Trp Leu Glu Gln Glu Thr Asp Arg Ile Phe
 20 25 30

Asp Phe Gly Lys Asn Ser Val Val Pro Thr Gly Phe Gly Trp Leu Gly
 35 40 45

Asn Lys Gly Gln Ile Lys Glu Glu Met Gly Thr His Leu Trp Ile Thr
 50 55 60

Ala Arg Met Leu His Val Tyr Ser Val Ala
 65 70

<210> 6198

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6198

Leu Leu Pro Ala Gly Arg Lys Ala Arg Leu Ser Glu Ala Pro Gly Gly
 1 5 10 15

Lys Lys Ser Leu Ser Met Leu His Tyr Ile Arg Gly Ala Ala Pro Lys
 20 25 30

Asp Ile Pro Val Pro Leu Ser His Ser Thr Asn Gly Lys Ser Lys Pro
 35 40 45

Trp Glu Pro Phe Val Ala Glu Glu Phe Ala His Xaa Phe His Glu Ser
 50 55 60

5415

Val Leu Gln Ser Thr Gln Lys Ala Leu Gln Lys His Lys Gly Ser Val
 65 70 75 80
 Ala Val Leu Ser Ala Glu Gln Asn His Lys Val Asp Thr Ser Val His
 85 90 95
 Tyr Asn Ile Pro Glu Leu Gln Ser Ser Ser Arg Ala Pro Pro Pro Gln
 100 105 110
 His Asn Gly Gln Gln Glu Pro Pro Thr Ala Arg Lys Gly Pro Pro Thr
 115 120 125
 Gln Glu Leu Asp Arg Asp Ser Glu Glu Glu Glu Glu Glu Asp Asp Glu
 130 135 140
 Asp Gly Glu Asp Glu Glu Glu Val Pro Lys Arg Lys Trp Gln Gly Ile
 145 150 155 160
 Glu Ala Val Phe Glu Ala Tyr Gln Glu His Ile Glu Glu Gln Asn Leu
 165 170 175
 Glu Arg Gln Val Leu Gln Thr Gln Cys Arg Arg Leu Glu Ala Arg His
 180 185 190
 Tyr Ser Leu Ser Leu Thr Ala Glu Gln Leu Ser His Ser Val Ala Glu
 195 200 205
 Leu Arg Ser Gln Lys Gln Lys Met Val Ser Glu Arg Glu Arg Leu Gln
 210 215 220
 Ala Glu Leu Asp His Leu Arg Lys Cys Leu Ala Leu Pro Ala Met His
 225 230 235 240
 Trp Pro Arg Gly Tyr Leu Lys Gly Tyr Pro Arg
 245 250

<210> 6199

<211> 115

<212> PRT

<213> Homo sapiens

<400> 6199

Glu Arg Val Ser Val Gly Gly Leu Val Gly Glu Val Ala Cys Ala Cys
 1 5 10 15

Arg Asp Cys Ile Pro Glu Thr Met Ala Glu Gly Asp Asn Arg Ser Thr
 20 25 30

Asn Leu Leu Ala Ala Glu Thr Ala Ser Leu Glu Glu Lys Pro Lys Met

5416

35 40 45
 Tyr Phe Met Thr Met Ile Val Ser Leu Ala Ala Val Ala Trp Val Gly
 50 55 60
 Gln Gln Val His Asn Leu Leu Leu Thr Tyr Leu Ile Val Thr Ser Leu
 65 70 75 80
 Leu Leu Leu Pro Gly Leu Asn Gln His Gly Ile Ile Leu Lys Tyr Ile
 85 90 95
 Gly Met Ala Lys Arg Glu Ile Asn Lys Leu Leu Lys Gln Lys Glu Lys
 100 105 110
 Lys Asn Glu
 115

<210> 6200
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 6200
 Leu Phe Val Ser Phe Ile Phe Thr Leu Lys Gln Glu Leu Ser Tyr Leu
 1 5 10 15
 Ile Ile Lys Val Ser Tyr Val Leu Ser Ala Arg Thr Phe Leu Ala Phe
 20 25 30
 Val Arg Met Cys Leu His Met Ser Ile Ile Asn Pro His Val Tyr Thr
 35 40 45
 Ile Val Ser Tyr Val Leu Leu Pro Asp Ser Ser Leu Cys Ile Leu
 50 55 60

<210> 6201
 <211> 141
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6201
 Pro Leu Pro Ser Gln Gly Ala Arg Trp Trp Leu Trp His Ser Cys Arg

5417

1	5	10	15
Val Val Phe Phe Ser Leu Arg Trp Ser Leu Thr Leu Val Thr Pro Ala	20	25	30
Gly Met Trp Trp Cys Lys Gln Leu Thr Ala Ala Leu Thr Leu Arg Leu	35	40	45
Lys Arg Ser Phe Cys Leu Gly Leu Leu Ser Ser Trp Asp Pro Arg Arg	50	55	60
Glu Ser Pro His Pro Val His Val Pro Ala Gly Leu Asp Met Arg Gly	65	70	75
Arg Cys Val Phe Pro Ala Thr Phe Ser Ser Ser Phe Leu Arg Gln Thr	85	90	95
Leu Ala Pro Ser Pro Arg Pro Glu Cys Gly Xaa Ala Asn Thr Ala His	100	105	110
Cys Ser Leu Asp Pro Gln Ala Gln Ala Ile Leu Thr Pro Arg Thr Pro	115	120	125
Lys Val Leu Gly Ser Gln Ala Arg Val Thr Met Leu Ala	130	135	140

<210> 6202

<211> 231

<212> PRT

<213> Homo sapiens

<400> 6202

Ile Ala Gly Thr Ala Thr Ala Arg Trp Trp Pro Ser Trp Trp Cys Ser	1	5	10	15
Asn Val Arg His Leu Gly Leu Lys Ser Glu Glu Ile Cys Trp Thr Asn	20	25	30	
Ser Glu Thr Phe Ala Ala Trp Cys Ala Leu Ala Ser Gly Ser Ser Arg	35	40	45	
Arg Glu Gly Arg Cys Arg Gln Ala Arg Ser Pro Arg Ser Ser Ser Thr	50	55	60	
Ile Ser Arg Cys Thr Trp Glu Arg Thr Arg Ser Thr Pro Pro Gly Phe	65	70	75	80
Thr Ala Trp Lys Thr Ser Ser Ala Arg Ser Ala Val Ser Thr Pro Ala	85	90	95	

5418

Ala Ala Cys Glu Cys Ser Arg Ser Ser Pro Thr Ser Trp Thr Thr Arg
100 105 110

Ser Ser Arg Leu Gly Ala Ala Gly Pro Ser Ala Ser Pro Ala Pro Arg
115 120 125

Ser Leu Pro Phe Pro Ala Pro Gly Leu Arg Ser Gln Arg Phe Ser Thr
130 135 140

Ser Ala Pro Pro Arg His Ala Arg Pro Pro Pro Val Ala Arg Ala Arg
145 150 155 160

Ala Ala Pro Pro His Pro Gln Ala Ser Gly Arg Lys Ser Gln Glu Leu
165 170 175

Pro Gln Gly Arg Lys Gly Ala Ala Ala Ser Ala Trp Leu Thr Ala Thr
180 185 190

Ala Val Val Thr Val Leu Gly Asp Pro Ala Cys Ala Phe Pro Leu Arg
195 200 205

Cys Lys Pro Gly Thr Gly Lys Gly Leu Arg Gly Glu Arg Thr Trp Pro
210 215 220

Ser Pro Arg Val His Gly Gln
225 230

<210> 6203

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5419

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6203

Gly Asp Pro Thr Cys Arg Gln Asn Leu Arg Cys Gly Thr Pro Gly Thr
 1 5 10 15

Val Ala Ala Ala Gly Asp Cys Gly Leu Phe Ser Ala Met His Pro Leu
 20 25 30

Gln Cys Val Leu Gln Val Gln Arg Ser Leu Gly Trp Gly Pro Leu Ala
 35 40 45

Ser Val Ser Trp Leu Ser Leu Arg Met Cys Arg Ala His Ser Ser Leu
 50 55 60

Ser Ser Thr Met Cys Pro Ser Pro Glu Arg Gln Glu Asp Gly Ala Arg
 65 70 75 80

Lys Asp Phe Ser Ser Arg Leu Ala Ala Gly Pro Thr Phe Gln His Phe
 85 90 95

Leu Lys Ser Ala Ser Ala Pro Gln Glu Lys Leu Ser Ser Glu Val Glu
 100 105 110

Asp Pro Pro Pro Tyr Leu Met Met Asp Glu Leu Leu Gly Arg Gln Arg
 115 120 125

Lys Val Tyr Leu Glu Thr Tyr Gly Cys Gln Met Asn Val Asn Asp Thr
 130 135 140

Glu Ile Ala Trp Ser Ile Leu Gln Lys Ser Gly Tyr Leu Arg Thr Ser
 145 150 155 160

Asn Leu Gln Glu Ala Asp Val Ile Leu Leu Xaa Xaa Ala Leu Ser Gly
 165 170 175

Arg Xaa Leu Ser Arg Pro Ser Gly Thr Val Thr Xaa Xaa Lys Ala
 180 185 190

<210> 6204

<211> 408

<212> PRT

5420

<213> Homo sapiens

<400> 6204

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Lys Ile Met Ala His Tyr Gly Ser Ile Gln Tyr Cys Phe His Thr Cys
 1             5             10             15

Thr Leu Glu Thr Lys Phe Pro Ile Ile Pro Tyr Ile Pro Thr Leu Ile
      20             25             30

Thr Gln Leu Thr Gln Lys Leu Leu Ala Val Ser Lys Asn Pro Ser Lys
      35             40             45

Pro His Phe Asn His Tyr Met Phe Glu Ala Ile Cys Leu Ser Ile Arg
      50             55             60

Ile Thr Cys Lys Ala Asn Pro Ala Ala Val Val Asn Phe Glu Glu Ala
      65             70             75             80

Leu Phe Leu Val Phe Thr Glu Ile Leu Gln Asn Asp Val Gln Glu Phe
      85             90             95

Ile Pro Tyr Val Phe Gln Val Met Ser Leu Leu Leu Glu Thr His Lys
      100            105            110

Asn Asp Ile Pro Ser Ser Tyr Met Ala Leu Phe Pro His Leu Leu Gln
      115            120            125

Pro Val Leu Trp Glu Arg Thr Gly Asn Ile Pro Ala Leu Val Arg Leu
      130            135            140

Leu Gln Ala Phe Leu Glu Arg Gly Ser Asn Thr Ile Ala Ser Ala Ala
      145            150            155            160

Ala Asp Lys Ile Pro Gly Leu Leu Gly Val Phe Gln Lys Leu Ile Ala
      165            170            175

Ser Lys Ala Asn Asp His Gln Gly Phe Tyr Leu Leu Asn Ser Ile Ile
      180            185            190

Glu His Met Pro Pro Glu Ser Val Asp Gln Tyr Arg Lys Gln Ile Phe
      195            200            205

Ile Leu Leu Phe Gln Arg Leu Gln Asn Ser Lys Thr Thr Lys Phe Ile
      210            215            220

Lys Ser Phe Leu Val Phe Ile Asn Leu Tyr Cys Ile Lys Tyr Gly Ala
      225            230            235            240

Leu Ala Leu Gln Glu Ile Phe Asp Gly Ile Gln Pro Lys Met Phe Gly
      245            250            255

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5421

Met Val Leu Glu Lys Ile Ile Ile Pro Glu Ile Gln Lys Val Ser Gly
 260 265 270

Asn Val Glu Lys Lys Ile Cys Ala Val Gly Ile Thr Lys Leu Leu Thr
 275 280 285

Glu Cys Pro Pro Met Met Asp Thr Glu Tyr Thr Lys Leu Trp Thr Pro
 290 295 300

Leu Leu Gln Ser Leu Ile Gly Leu Phe Glu Leu Pro Glu Asp Asp Thr
 305 310 315 320

Ile Pro Asp Glu Glu His Phe Ile Asp Ile Glu Asp Thr Pro Gly Tyr
 325 330 335

Gln Thr Ala Phe Ser Gln Leu Ala Phe Ala Gly Lys Lys Glu His Asp
 340 345 350

Pro Val Gly Gln Met Val Asn Asn Pro Lys Ile His Leu Ala Gln Ser
 355 360 365

Leu His Lys Leu Ser Thr Ala Cys Pro Gly Arg Val Pro Ser Met Val
 370 375 380

Ser Thr Ser Leu Asn Ala Glu Ala Leu Gln Tyr Leu Gln Gly Tyr Leu
 385 390 395 400

Gln Ala Ala Ser Val Thr Leu Leu
 405

<210> 6205

<211> 139

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

5422

<400> 6205

Ala Ala Ala Ser Arg Arg Pro Cys Ala Gln Arg Ser Arg Thr Ser Pro
 1 5 10 15

Ala Ala Ala Ser Cys Arg Ser Ala Phe Gly Val Arg Arg Ala Gln Pro
 20 25 30

Ala Ser Glu Leu Arg Gly Pro Gly Arg Val Ala Arg Met Ala Trp Ala
 35 40 45

Gly Ser Arg Arg Val Pro Ala Gly Thr Arg Ala Ala Ala Glu Arg Cys
 50 55 60

Cys Arg Leu Ser Leu Ser Pro Gly Ala Gln Pro Ala Arg Pro Arg Pro
 65 70 75 80

Ser Ala Pro Pro Arg Pro Met Arg Phe Leu Thr Ser Cys Xaa Leu Leu
 85 90 95

Leu Pro Arg Ala Ala Gln Ile Leu Ala Xaa Glu Ala Gly Leu Pro Ser
 100 105 110

Xaa Arg Ser Phe Met Gly Phe Ala Ala Pro Phe Thr Asn Lys Arg Lys
 115 120 125

Ala Tyr Ser Glu Arg Arg Ile Met Gly Tyr Ser
 130 135

<210> 6206

<211> 275

<212> PRT

<213> Homo sapiens

<400> 6206

Gly Gly Ala Ser Asn Phe Leu Ser Trp Arg Glu Ser Ala Arg Trp Ser
 1 5 10 15

Arg Gln Leu Arg Arg Thr Leu Ile Arg Leu Ser Phe Pro Ile Ser Cys
 20 25 30

Gly Arg Ser His Ala Phe Gly Gly Cys Lys Met Ala Ala Thr Ser Gly
 35 40 45

Thr Asp Glu Pro Val Ser Gly Glu Leu Val Ser Val Ala His Ala Leu
 50 55 60

Ser Leu Pro Ala Glu Ser Tyr Gly Asn Asp Pro Asp Ile Glu Met Ala
 65 70 75 80

5423

Trp Ala Met Arg Ala Met Gln His Ala Glu Val Tyr Tyr Lys Leu Ile
 85 90 95
 Ser Ser Val Asp Pro Gln Phe Leu Lys Leu Thr Lys Val Asp Asp Gln
 100 105 110
 Ile Tyr Ser Glu Phe Arg Lys Asn Phe Glu Thr Leu Arg Ile Asp Val
 115 120 125
 Leu Asp Pro Glu Glu Leu Lys Ser Glu Ser Ala Lys Glu Lys Trp Arg
 130 135 140
 Pro Phe Cys Leu Lys Phe Asn Gly Ile Val Glu Asp Phe Asn Tyr Gly
 145 150 155 160
 Thr Leu Leu Arg Leu Asp Cys Ser Gln Gly Tyr Thr Glu Glu Asn Thr
 165 170 175
 Ile Phe Ala Pro Arg Ile Gln Phe Phe Ala Ile Glu Ile Ala Arg Asn
 180 185 190
 Arg Glu Gly Tyr Asn Lys Ala Val Tyr Ile Ser Val Gln Asp Lys Glu
 195 200 205
 Gly Glu Lys Gly Val Asn Asn Gly Gly Glu Lys Arg Ala Asp Ser Gly
 210 215 220
 Glu Glu Glu Asn Thr Lys Asn Gly Gly Glu Lys Gly Ala Asp Ser Gly
 225 230 235 240
 Glu Glu Lys Glu Glu Gly Ile Asn Arg Glu Asp Lys Thr Asp Lys Gly
 245 250 255
 Gly Glu Lys Gly Lys Glu Ala Asp Lys Glu Ile Asn Lys Ser Gly Glu
 260 265 270
 Lys Ala Met
 275

<210> 6207

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

5424

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6207
 Lys Met Leu Xaa Glu Ile Lys Ile Ile Ser Leu Xaa Val Arg Leu Asn
 1 5 10 15
 Thr Xaa Asn Leu Xaa Pro Asn Ile Thr Tyr Gly Ser Asn Tyr Phe Leu
 20 25 30
 Phe Cys Cys Leu Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys
 35 40 45
 Lys Xaa Phe Phe Val Gly Gly Xaa Phe Tyr Leu Leu Gln Asn Asn Lys
 50 55 60
 Val Gln Thr Ile Leu Cys Leu Thr Val Ala Leu Ser Lys His Tyr Ala
 65 70 75 80
 Trp Ile Ala Phe Glu Lys Lys
 85

<210> 6208
 <211> 119
 <212> PRT
 <213> Homo sapiens

5425

<400> 6208

Pro Phe Pro Ser Leu Pro Ser Ser Cys Cys Gln Gly Leu Gln Val Cys
 1 5 10 15
 His Arg Pro Gly Pro Ser Leu Lys His Gly Ile Ile Ser Glu Leu Glu
 20 25 30
 Val Ala Ala Ser Glu Lys Asn Pro Ser Arg Val Leu Thr Ala Glu Ile
 35 40 45
 Gln Glu Leu Gly Asn Gln Pro Pro Val Cys Arg Leu Leu Ser Leu Glu
 50 55 60
 Ile Leu Trp Pro Asn Leu Val Ala Val Phe Trp Asn Ser Phe Tyr Arg
 65 70 75 80
 Gly Arg Gln Cys Cys Ala Phe Leu Asp Phe Arg Met Phe Gln Gly Cys
 85 90 95
 Cys Trp Ile Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
 100 105 110
 Val Arg Ala Cys Met Cys Ala
 115

<210> 6209

<211> 180

<212> PRT

<213> Homo sapiens

<400> 6209

Arg Asn Met Ser Ser Phe Ser Arg Ala Pro Gln Gln Trp Ala Thr Phe
 1 5 10 15
 Ala Arg Ile Trp Tyr Leu Leu Asp Gly Lys Met Gln Pro Pro Gly Lys
 20 25 30
 Leu Ala Ala Met Ala Ser Ile Arg Leu Gln Gly Leu His Lys Pro Val
 35 40 45
 Tyr His Ala Leu Ser Asp Cys Gly Asp His Val Val Ile Met Asn Thr
 50 55 60
 Arg His Ile Ala Phe Ser Gly Asn Lys Trp Glu Gln Lys Val Tyr Ser
 65 70 75 80
 Ser His Thr Gly Tyr Pro Gly Gly Phe Arg Gln Val Thr Ala Ala Gln
 85 90 95

5426

Leu His Leu Arg Asp Pro Val Ala Ile Val Lys Leu Ala Ile Tyr Gly
 100 105 110
 Met Leu Pro Lys Asn Leu His Arg Arg Thr Met Met Glu Arg Leu His
 115 120 125
 Leu Phe Pro Asp Glu Tyr Ile Pro Glu Asp Ile Leu Lys Asn Leu Val
 130 135 140
 Glu Glu Leu Pro Gln Pro Arg Lys Ile Pro Lys Arg Leu Asp Glu Tyr
 145 150 155 160
 Thr Gln Glu Glu Ile Asp Ala Phe Pro Arg Leu Trp Thr Pro Pro Glu
 165 170 175
 Asp Tyr Arg Leu
 180

<210> 6210
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 6210
 Ala Glu Leu Gly Ala Asn Gly Ser Ile Ala Val Ile Ser Gly Arg Arg
 1 5 10 15
 Val Ser Ile Gln Val Ser Asp Ser Ser Ala Arg Leu Pro Trp Val Trp
 20 25 30
 Glu Glu Ala Leu Pro Phe Cys Ala Val Asp Pro Ala Cys Leu Leu Trp
 35 40 45
 Ser Pro Pro Thr Leu Ala Arg Ser Phe Thr Asn Gln Arg Arg Ala Val
 50 55 60
 Ser Lys Ser Ser Asp Arg Met Trp Cys Lys Cys Arg Cys Thr Ser Leu
 65 70 75 80
 Thr Leu Ser Cys Arg Ser
 85

<210> 6211
 <211> 42
 <212> PRT
 <213> Homo sapiens

5427

<400> 6211

Ile Leu Ser Asp Val Trp Ser Leu Ser Ile Gln Thr Val Asn Ile Val
 1 5 10 15

Leu Val Phe Val Leu Ile Leu Ile Leu Leu Leu Tyr Ser Leu Arg Cys
 20 25 30

Ala Met Gln Thr Leu Ser Asn Cys Val Trp
 35 40

<210> 6212

<211> 269

<212> PRT

<213> Homo sapiens

<400> 6212

Arg Asp Leu Ser Glu Pro Val Ala Gly Leu Phe Tyr Phe Pro Ser Leu
 1 5 10 15

Ser Pro Ala Pro Tyr Leu Phe Ser Pro Phe Ser His Pro Arg Ser Arg
 20 25 30

Ser His Gly Gly Ala Ser Ala Ala Thr Gln Ser His Ser Ile Ser Ser
 35 40 45

Ser Ser Phe Gly Ala Glu Pro Ser Ala Pro Gly Gly Gly Gly Ser Pro
 50 55 60

Gly Ala Cys Pro Ala Leu Gly Thr Lys Ser Cys Ser Ser Ser Cys Ala
 65 70 75 80

Val His Asp Leu Ile Phe Trp Arg Asp Val Lys Lys Thr Gly Phe Val
 85 90 95

Phe Gly Thr Thr Leu Ile Met Leu Leu Ser Leu Ala Ala Phe Ser Val
 100 105 110

Ile Ser Val Val Ser Tyr Leu Ile Leu Ala Leu Leu Ser Val Thr Ile
 115 120 125

Ser Phe Arg Ile Tyr Lys Ser Val Ile Gln Ala Val Gln Lys Ser Glu
 130 135 140

Glu Gly His Pro Phe Lys Ala Tyr Leu Asp Val Asp Ile Thr Leu Ser
 145 150 155 160

Ser Glu Ala Phe His Asn Tyr Met Asn Ala Ala Met Val His Ile Asn
 165 170 175

5428

Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu Val Glu Asp Leu Val
 180 185 190

Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu Met Thr Tyr Val Gly
 195 200 205

Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu Ala Glu Leu Leu Ile
 210 215 220

Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys Thr Gln Ile Asp His
 225 230 235 240

Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser Ile Val Glu Lys Ile
 245 250 255

Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys Ala Glu
 260 265

<210> 6213

<211> 206

<212> PRT

<213> Homo sapiens

<400> 6213

Pro Ala Gly Asp Asn Gly Asn Met Ala Leu Asn Gly Ala Glu Val Asp
 1 5 10 15

Asp Phe Ser Trp Glu Pro Pro Thr Glu Ala Glu Thr Lys Val Leu Gln
 20 25 30

Ala Arg Arg Glu Arg Gln Asp Arg Ile Ser Arg Leu Met Gly Asp Tyr
 35 40 45

Leu Leu Arg Gly Tyr Arg Met Leu Gly Glu Thr Cys Ala Asp Cys Gly
 50 55 60

Thr Ile Leu Leu Gln Asp Lys Gln Arg Lys Ile Tyr Cys Val Ala Cys
 65 70 75 80

Gln Glu Leu Asp Ser Asp Val Asp Lys Asp Asn Pro Ala Leu Asn Ala
 85 90 95

Gln Ala Ala Leu Ser Gln Ala Arg Glu His Gln Leu Ala Ser Ala Ser
 100 105 110

Glu Leu Pro Leu Gly Ser Arg Pro Ala Pro Gln Pro Pro Val Pro Arg
 115 120 125

5429

Pro Glu His Cys Glu Gly Ala Ala Ala Gly Leu Lys Ala Ala Gln Gly
 130 135 140

Pro Pro Ala Pro Ala Val Pro Pro Asn Thr Asp Val Met Ala Cys Thr
 145 150 155 160

Gln Thr Ala Leu Leu Gln Lys Leu Thr Trp Ala Ser Ala Glu Leu Gly
 165 170 175

Ser Ser Thr Ser Leu Glu Thr Ser Ile Gln Leu Cys Gly Leu Ile Arg
 180 185 190

Ala Cys Ala Glu Ala Leu Arg Ser Leu Gln Gln Leu Gln His
 195 200 205

<210> 6214

<211> 583

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6214

Ala Ala Pro Ala Trp Ala Ala Leu Pro Leu Ser Arg Ser Leu Pro Pro
 1 5 10 15

Cys Ser Asn Ser Ser Ser Phe Ser Met Pro Leu Phe Leu Leu Leu
 20 25 30

Leu Val Leu Leu Leu Leu Leu Glu Asp Ala Gly Ala Gln Gln Gly Asp
 35 40 45

Gly Cys Gly His Thr Val Leu Gly Pro Glu Ser Gly Thr Leu Thr Ser
 50 55 60

Ile Asn Tyr Pro Gln Thr Tyr Pro Asn Ser Thr Val Cys Glu Trp Glu
 65 70 75 80

Ile Arg Val Lys Met Gly Glu Arg Val Arg Ile Lys Phe Gly Asp Phe
 85 90 95

Asp Ile Glu Asp Ser Asp Ser Cys His Phe Asn Tyr Leu Arg Ile Tyr
 100 105 110

Asn Gly Ile Gly Val Ser Arg Thr Glu Ile Gly Lys Tyr Cys Gly Leu
 115 120 125

5430

Gly Leu Gln Met Asn His Ser Ile Glu Ser Lys Gly Asn Glu Ile Thr
 130 135 140
 Leu Leu Phe Met Ser Gly Ile His Val Ser Gly Arg Gly Phe Leu Ala
 145 150 155 160
 Ser Tyr Ser Val Ile Asp Lys Gln Asp Leu Ile Thr Cys Leu Asp Thr
 165 170 175
 Ala Ser Asn Phe Leu Glu Pro Glu Phe Ser Lys Tyr Cys Pro Ala Gly
 180 185 190
 Cys Leu Leu Pro Phe Ala Glu Ile Ser Gly Thr Ile Pro His Gly Tyr
 195 200 205
 Arg Asp Ser Ser Pro Leu Cys Met Ala Gly Val His Ala Gly Val Val
 210 215 220
 Ser Asn Thr Leu Gly Gly Gln Ile Ser Val Val Ile Ser Lys Gly Ile
 225 230 235 240
 Pro Tyr Tyr Glu Ser Ser Leu Ala Asn Asn Val Thr Ser Val Val Gly
 245 250 255
 His Leu Ser Thr Ser Leu Phe Thr Phe Lys Thr Ser Gly Cys Tyr Gly
 260 265 270
 Thr Leu Gly Met Glu Ser Gly Val Ile Ala Asp Pro Gln Ile Thr Ala
 275 280 285
 Ser Ser Val Leu Glu Trp Thr Asp His Thr Gly Gln Glu Asn Ser Trp
 290 295 300
 Lys Pro Lys Lys Ala Arg Leu Lys Lys Pro Gly Pro Pro Trp Ala Ala
 305 310 315 320
 Phe Ala Thr Asp Glu Tyr Gln Trp Leu Gln Ile Asp Leu Asn Lys Glu
 325 330 335
 Lys Lys Ile Thr Gly Ile Ile Thr Thr Gly Ile Thr Met Val Glu His
 340 345 350
 Asn Tyr Tyr Val Ser Ala Tyr Arg Ile Leu Tyr Ser Asp Asp Gly Gln
 355 360 365
 Lys Trp Thr Val Tyr Arg Glu Pro Gly Val Glu Gln Asp Lys Ile Phe
 370 375 380
 Gln Gly Asn Lys Asp Tyr His Gln Asp Val Arg Asn Xaa Phe Leu Pro
 385 390 395 400

5431

Pro Ile Ile Ala Arg Phe Ile Arg Val Asn Pro Thr Gln Trp Gln Gln
 405 410 415
 Lys Ile Ala Met Lys Met Glu Leu Leu Gly Cys Gln Phe Ile Pro Lys
 420 425 430
 Gly Arg Pro Pro Lys Leu Thr Gln Pro Pro Pro Pro Arg Asn Ser Asn
 435 440 445
 Asp Leu Lys Asn Thr Thr Ala Pro Pro Lys Ile Ala Lys Gly Arg Ala
 450 455 460
 Pro Lys Phe Thr Gln Pro Leu Gln Pro Arg Ser Ser Asn Glu Phe Pro
 465 470 475 480
 Ala Gln Thr Glu Gln Thr Thr Ala Ser Pro Asp Ile Arg Asn Thr Thr
 485 490 495
 Val Thr Pro Asn Val Thr Lys Asp Val Ala Leu Ala Ala Val Leu Val
 500 505 510
 Pro Val Leu Val Met Val Leu Thr Thr Leu Ile Leu Ile Leu Val Cys
 515 520 525
 Ala Trp His Trp Arg Asn Arg Lys Lys Lys Thr Glu Gly Thr Tyr Asp
 530 535 540
 Leu Pro Tyr Trp Asp Arg Ala Gly Asn Ser Arg Gly Leu Cys Ile Ser
 545 550 555 560
 Phe Leu Ser Glu Gly Cys Arg Ser Pro Thr Gly Gly Ser Ser Glu Lys
 565 570 575
 Arg Val Ile Leu Trp Pro Arg
 580

<210> 6215

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5432

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6215

Pro	Ser	Arg	Gly	His	Thr	Trp	Ala	Tyr	Ser	Gly	Xaa	Ala	Glu	Pro	Ala
1				5					10					15	

Xaa	Ala	Arg	Leu	Arg	Ala	Ser	Leu	Thr	Leu	Ser	Arg	Glu	Ala	Gln	Lys
			20					25					30		

Phe	Ala	Leu	Ala	Arg	Glu	Val	Val	Tyr	Leu	Glu	Ser	Ser	Thr	Thr	Ala
		35					40					45			

Val	His	Ala	Leu	Leu	Ala	Pro	Ala	Cys	Leu	Ala	Gly	Thr	Trp	Ala	Leu
	50					55					60				

Gly	Val	Gly	Ala	Lys	Tyr	Thr	Leu	Gly	Leu	His	Ala	Gly	Pro	Met	Asn
65					70					75					80

Leu	Arg	Ala	Ala	Phe	Ser	Leu	Val	Ala	Ala	Val	Ala	Gly	Phe	Val	Ala
				85					90					95	

Tyr	Ala	Phe	Ser	Gln	Asp	Ser	Leu	Thr	His	Ala	Val	Glu	Ser	Trp	Leu
			100					105					110		

Asp	Arg	Arg	Thr	Ala	Ser	Leu	Ser	Ala	Ala	Tyr	Ala	Cys	Gly	Gly	Val
		115					120					125			

Glu	Phe	Tyr	Glu	Lys	Leu	Leu	Ser	Gly	Asn	Leu	Ala	Leu	Arg	Xaa	Leu
	130					135					140				

Phe	Gly	Gln	Lys	Lys	Gly	Glu	Lys	Leu	Tyr	Thr	Pro	Asn	Xaa	Glu	His
145					150					155					160

Arg	Pro	Xaa	Asp	Thr	Cys	Ser
				165		

5433

<210> 6216

<211> 63

<212> PRT

<213> Homo sapiens

<400> 6216

Gln Gly Leu Pro Ser Met Lys Tyr Leu Thr Phe Ser His Pro Leu Lys
1 5 10 15

Asn Ile His Phe Tyr Lys Met Lys Thr Ile Ile Asn Val Leu Asn Ile
20 25 30

Lys Lys Asn Asn Asn Leu Gln Arg Lys Ile Asn Gly Asp Ser Tyr Leu
35 40 45

Pro Cys Thr Phe Ser Thr Ile Val Ala Ala Ser Cys Thr His Leu
50 55 60

<210> 6217

<211> 521

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6217

Ala Asp Tyr Leu Leu Ser Arg Met Asp Val Thr Ser Cys Ile Ser Tyr
1 5 10 15

Arg Asn Phe Ala Ser Cys Met Gly Asp Ser Arg Leu Leu Asn Lys Val
20 25 30

Asp Ala Tyr Ile Gln Glu His Leu Leu Gln Ile Ser Glu Glu Glu Glu

35					40					45					
Phe	Leu	Lys	Leu	Pro	Arg	Leu	Lys	Leu	Glu	Val	Met	Leu	Glu	Asp	Asn
50						55				60					
Val	Cys	Leu	Pro	Ser	Asn	Gly	Lys	Leu	Tyr	Thr	Lys	Val	Ile	Asn	Trp
65				70						75				80	
Val	Gln	Arg	Xaa	Ile	Trp	Glu	Asn	Gly	Asp	Ser	Leu	Xaa	Xaa	Leu	Met
				85				90						95	
Glu	Glu	Val	Gln	Thr	Leu	Tyr	Tyr	Ser	Ala	Asp	His	Lys	Leu	Leu	Asp
		100						105				110			
Gly	Asn	Leu	Leu	Asp	Gly	Gln	Ala	Glu	Val	Phe	Gly	Ser	Asp	Asp	Asp
		115				120						125			
His	Ile	Gln	Phe	Val	Gln	Lys	Lys	Pro	Pro	Arg	Glu	Asn	Gly	His	Lys
130						135				140					
Gln	Ile	Ser	Ser	Ser	Ser	Thr	Gly	Cys	Leu	Ser	Ser	Pro	Asn	Ala	Thr
145				150						155				160	
Val	Gln	Ser	Pro	Lys	His	Glu	Trp	Lys	Ile	Val	Ala	Ser	Glu	Lys	Thr
				165				170						175	
Ser	Asn	Asn	Thr	Tyr	Leu	Cys	Leu	Ala	Val	Leu	Asp	Gly	Ile	Phe	Cys
		180						185				190			
Val	Ile	Phe	Leu	His	Gly	Arg	Asn	Ser	Pro	Gln	Ser	Ser	Pro	Thr	Ser
195						200						205			
Thr	Pro	Lys	Leu	Ser	Lys	Ser	Leu	Ser	Phe	Glu	Met	Gln	Gln	Asp	Glu
210						215				220					
Leu	Ile	Glu	Lys	Pro	Met	Ser	Pro	Met	Gln	Tyr	Ala	Arg	Ser	Gly	Leu
225				230						235				240	
Gly	Thr	Ala	Glu	Met	Asn	Gly	Lys	Leu	Ile	Ala	Ala	Gly	Gly	Tyr	Asn
				245				250						255	
Arg	Glu	Glu	Cys	Leu	Arg	Thr	Val	Glu	Cys	Tyr	Asn	Pro	His	Thr	Asp
		260						265				270			
His	Trp	Ser	Phe	Leu	Ala	Pro	Met	Arg	Thr	Pro	Arg	Ala	Arg	Phe	Gln
275						280						285			
Met	Ala	Val	Leu	Met	Gly	Gln	Leu	Tyr	Val	Val	Gly	Gly	Ser	Asn	Gly
290						295				300					
His	Ser	Asp	Asp	Leu	Ser	Cys	Gly	Glu	Met	Tyr	Asp	Ser	Asn	Ile	Asp

5435

305		310		315		320
Asp Trp Ile Pro Val Pro Glu Leu Arg Thr Asn Arg Cys Asn Ala Gly						
	325		330		335	
Val Cys Ala Leu Asn Gly Lys Leu Tyr Ile Val Gly Gly Ser Asp Pro						
	340		345		350	
Tyr Gly Gln Lys Gly Leu Lys Asn Cys Asp Val Phe Asp Pro Val Thr						
	355		360		365	
Lys Leu Trp Thr Ser Cys Ala Pro Leu Asn Ile Arg Arg His Gln Ser						
	370		375		380	
Ala Val Cys Glu Leu Gly Gly Tyr Leu Tyr Ile Ile Gly Gly Ala Glu						
385		390		395		400
Ser Trp Asn Cys Leu Asn Thr Val Glu Arg Tyr Asn Pro Glu Asn Asn						
	405		410		415	
Thr Trp Thr Leu Ile Ala Pro Met Asn Val Ala Arg Arg Gly Ala Gly						
	420		425		430	
Val Ala Val Leu Asn Gly Lys Leu Phe Val Cys Gly Gly Phe Asp Gly						
	435		440		445	
Ser His Ala Ile Ser Cys Val Glu Met Tyr Asp Pro Thr Arg Asn Glu						
	450		455		460	
Trp Lys Met Met Gly Asn Met Thr Ser Pro Arg Ser Asn Ala Gly Ile						
465		470		475		480
Ala Thr Val Gly Asn Thr Ile Tyr Ala Val Gly Gly Phe Asp Gly Asn						
	485		490		495	
Glu Phe Leu Asn Thr Val Glu Val Tyr Asn Leu Glu Ser Asn Glu Trp						
	500		505		510	
Ser Pro Tyr Thr Lys Ile Phe Gln Phe						
	515		520			

<210> 6218

<211> 425

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

5436

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6218

Gly	Val	Trp	Ser	Leu	Met	Leu	Leu	Gly	Asp	Met	Arg	Leu	Xaa	Phe	Xaa
1				5				10					15		

Gln	Val	Glu	Asp	Glu	Leu	Ser	Ser	Pro	Val	Val	Val	Phe	Arg	Phe	Phe
		20						25				30			

Gln	Glu	Leu	Pro	Gly	Ser	Asp	Pro	Val	Phe	Lys	Ala	Val	Pro	Val	Pro
		35					40					45			

Asn	Met	Thr	Pro	Ser	Gly	Val	Gly	Arg	Glu	Arg	His	Ser	Cys	Asp	Ala
	50					55					60				

Leu	Asn	Arg	Trp	Leu	Gly	Glu	Gln	Leu	Lys	Gln	Leu	Val	Pro	Ala	Ser
65					70					75					80

Gly	Leu	Thr	Val	Met	Asp	Leu	Glu	Ala	Glu	Gly	Thr	Cys	Leu	Arg	Phe
				85					90					95	

Ser	Pro	Leu	Met	Thr	Ala	Ala	Val	Leu	Gly	Thr	Arg	Gly	Glu	Asp	Val
		100						105					110		

Asp	Gln	Leu	Val	Ala	Cys	Ile	Glu	Ser	Lys	Leu	Pro	Val	Leu	Cys	Cys
	115						120					125			

Thr	Leu	Gln	Leu	Arg	Glu	Glu	Phe	Lys	Gln	Glu	Val	Glu	Ala	Thr	Ala
	130					135					140				

Gly	Leu	Leu	Tyr	Val	Asp	Asp	Pro	Asn	Trp	Ser	Gly	Ile	Gly	Val	Val
145					150					155					160

Arg	Tyr	Glu	His	Ala	Asn	Asp	Asp	Lys	Ser	Ser	Leu	Lys	Ser	Asp	Pro
				165					170					175	

Glu	Gly	Glu	Asn	Ile	His	Ala	Gly	Leu	Leu	Lys	Lys	Leu	Asn	Glu	Leu
			180					185					190		

Glu	Ser	Asp	Leu	Thr	Phe	Lys	Ile	Gly	Pro	Glu	Tyr	Lys	Ser	Met	Lys
		195						200				205			

Ser	Cys	Leu	Tyr	Val	Gly	Met	Ala	Ser	Asp	Asn	Val	Asp	Ala	Ala	Glu
	210					215					220				

Leu	Val	Glu	Thr	Ile	Ala	Ala	Thr	Ala	Arg	Glu	Ile	Glu	Glu	Asn	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5437

225		230		235		240									
Arg	Leu	Leu	Glu	Asn	Met	Thr	Glu	Val	Val	Arg	Lys	Gly	Ile	Gln	Glu
			245						250					255	
Ala	Gln	Val	Glu	Leu	Gln	Lys	Ala	Ser	Glu	Glu	Arg	Leu	Leu	Glu	Glu
		260						265					270		
Gly	Val	Leu	Arg	Gln	Ile	Pro	Val	Val	Gly	Ser	Val	Leu	Asn	Trp	Phe
	275						280					285			
Ser	Pro	Val	Gln	Ala	Leu	Gln	Lys	Gly	Arg	Thr	Phe	Asn	Leu	Thr	Ala
	290					295					300				
Gly	Ser	Leu	Glu	Ser	Thr	Glu	Pro	Ile	Tyr	Val	Tyr	Lys	Ala	Gln	Gly
305					310					315				320	
Ala	Gly	Val	Thr	Leu	Pro	Pro	Thr	Pro	Ser	Gly	Ser	Arg	Thr	Lys	Gln
			325						330					335	
Arg	Leu	Pro	Gly	Gln	Lys	Pro	Phe	Lys	Arg	Ser	Leu	Arg	Gly	Ser	Asp
		340						345					350		
Ala	Leu	Ser	Glu	Thr	Ser	Ser	Val	Ser	His	Ile	Glu	Asp	Leu	Glu	Lys
		355					360					365			
Val	Glu	Arg	Leu	Ser	Ser	Gly	Pro	Glu	Gln	Ile	Thr	Leu	Glu	Ala	Ser
	370					375					380				
Ser	Thr	Glu	Gly	His	Pro	Gly	Ala	Pro	Ser	Pro	Gln	His	Thr	Asp	Gln
385					390					395				400	
Thr	Glu	Ala	Phe	Gln	Lys	Gly	Val	Pro	His	Pro	Glu	Asp	Asp	His	Ser
			405						410					415	
Gln	Val	Glu	Gly	Pro	Glu	Ser	Leu	Arg							
		420						425							

<210> 6219

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5438

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6219

Ser	Lys	Glu	Ala	Ala	Leu	Gln	Trp	His	Ser	Trp	Val	Trp	Cys	Thr	Thr
1				5					10					15	

Pro	Gln	Glu	His	Leu	Xaa	Phe	Cys	Leu	Ile	Asn	Ala	Gly	Val	Leu	Tyr
			20					25					30		

Leu	Tyr	Phe	Ser	Asn	Tyr	Leu	Gln	Ile	Asp	Glu	Glu	Xaa	Tyr	Gly	Gly
		35					40					45			

Thr	Trp	Glu	Leu	Thr	Xaa	Glu	Gly	Phe	Met	Thr	Xaa	Phe	Ala	Leu	Phe
	50					55					60				

Arg	Ser	Leu	Asp	His	Leu	Leu	His	Cys	His	Pro	Leu	Xaa	Leu	Met	Val
65					70					75				80	

Tyr	Ser	Ser	Gln	Cys	Ser	Leu	Ser	Ser	Pro	Lys	Asp	Pro	Leu	Gly	Leu
				85					90					95	

Gln	His	Arg	Asn	Leu	Asp	Arg	Trp	Gly	Thr	Gln	Pro	Leu	Gly	Asn	Leu
			100					105					110		

Glu	Asp	Pro	Cys	Phe	Arg	Asp	Arg	Glu	Ser	Val	Cys	Trp	Gly	Ile	Ser
		115					120					125			

Val	Phe
	130

<210> 6220

<211> 150

5439

<212> PRT

<213> Homo sapiens

<400> 6220

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Thr Pro Thr Pro Phe Gly Ser Ala Arg Ala Pro Gln Ala Arg Pro Gly
 1             5             10             15

Arg Arg Asp Gly Arg Met Ser Gly Gly Arg Arg Lys Glu Glu Pro Pro
      20             25             30

Gln Pro Gln Leu Ala Asn Gly Ala Leu Lys Val Ser Val Trp Ser Lys
      35             40             45

Val Leu Arg Ser Asp Ala Ala Trp Glu Asp Lys Asp Glu Phe Leu Asp
      50             55             60

Val Ile Tyr Trp Phe Arg Gln Ile Ile Ala Val Val Leu Gly Val Ile
      65             70             75             80

Trp Gly Val Leu Pro Leu Arg Gly Phe Leu Gly Ile Ala Gly Phe Cys
      85             90             95

Leu Ile Asn Ala Gly Val Leu Tyr Leu Tyr Phe Ser Asn Tyr Leu Gln
      100            105            110

Ile Asp Glu Glu Glu Tyr Gly Gly Thr Trp Glu Leu Thr Lys Glu Gly
      115            120            125

Phe Met Thr Ser Phe Ala Leu Phe Met Val Ile Trp Ile Ile Phe Tyr
      130            135            140

Thr Ala Ile His Tyr Asp
145             150

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<210> 6221

<211> 782

<212> PRT

<213> Homo sapiens

<400> 6221

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Trp Ser Ala Ala Ala Ala Ala Ala Ala Ala Gln Ser Arg Trp Trp
 1             5             10             15

Ser Arg Arg Gly Gly Ser Arg Ser Thr Met Pro Ala Leu Pro Leu Asp
      20             25             30

Gln Leu Gln Ile Thr His Lys Asp Pro Lys Thr Gly Lys Leu Arg Thr
      35             40             45

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5440

Ser Pro Ala Leu His Pro Glu Gln Lys Ala Asp Arg Tyr Phe Val Leu
 50 55 60
 Tyr Lys Pro Pro Pro Lys Asp Asn Ile Pro Ala Leu Val Glu Glu Tyr
 65 70 75 80
 Leu Glu Arg Ala Thr Phe Val Ala Asn Asp Leu Asp Trp Leu Leu Ala
 85 90 95
 Leu Pro His Asp Lys Phe Trp Cys Gln Val Ile Phe Asp Glu Thr Leu
 100 105 110
 Gln Lys Cys Leu Asp Ser Tyr Leu Arg Tyr Val Pro Arg Lys Phe Asp
 115 120 125
 Glu Gly Val Ala Ser Ala Pro Glu Val Val Asp Met Gln Lys Arg Leu
 130 135 140
 His Arg Ser Val Phe Leu Thr Phe Leu Arg Met Ser Thr His Lys Glu
 145 150 155 160
 Ser Lys Asp His Phe Ile Ser Pro Ser Ala Phe Gly Glu Ile Leu Tyr
 165 170 175
 Asn Asn Phe Leu Phe Asp Ile Pro Lys Ile Leu Asp Leu Cys Val Leu
 180 185 190
 Phe Gly Lys Gly Asn Ser Pro Leu Leu Gln Lys Met Ile Gly Asn Ile
 195 200 205
 Phe Thr Gln Gln Pro Ser Tyr Tyr Ser Asp Leu Asp Glu Thr Leu Pro
 210 215 220
 Thr Ile Leu Gln Val Phe Ser Asn Ile Leu Gln His Cys Gly Leu Gln
 225 230 235 240
 Gly Asp Gly Ala Asn Thr Thr Pro Gln Lys Leu Glu Glu Arg Gly Arg
 245 250 255
 Leu Thr Pro Ser Asp Met Pro Leu Leu Glu Leu Lys Asp Ile Val Leu
 260 265 270
 Tyr Leu Cys Asp Thr Cys Thr Thr Leu Trp Ala Phe Leu Asp Ile Phe
 275 280 285
 Pro Leu Ala Cys Gln Thr Phe Gln Lys His Asp Phe Cys Tyr Arg Leu
 290 295 300
 Ala Ser Phe Tyr Glu Ala Ala Ile Pro Glu Met Glu Ser Ala Ile Lys
 305 310 315 320

5441

Lys Arg Arg Leu Glu Asp Ser Lys Leu Leu Gly Asp Leu Trp Gln Arg
 325 330 335
 Leu Ser His Ser Arg Lys Lys Leu Met Glu Ile Phe His Ile Ile Leu
 340 345 350
 Asn Gln Ile Cys Leu Leu Pro Ile Leu Glu Ser Ser Cys Asp Asn Ile
 355 360 365
 Gln Gly Phe Ile Glu Glu Phe Leu Gln Ile Phe Ser Ser Leu Leu Gln
 370 375 380
 Glu Lys Arg Phe Leu Arg Asp Tyr Asp Ala Leu Phe Pro Val Ala Glu
 385 390 395 400
 Asp Ile Ser Leu Leu Gln Gln Ala Ser Ser Val Leu Asp Glu Thr Arg
 405 410 415
 Thr Ala Tyr Ile Leu Gln Ala Val Glu Ser Ala Trp Glu Gly Val Asp
 420 425 430
 Arg Arg Lys Ala Thr Asp Ala Lys Asp Pro Ser Val Ile Glu Glu Pro
 435 440 445
 Asn Gly Glu Pro Asn Gly Val Thr Val Thr Ala Glu Ala Val Ser Gln
 450 455 460
 Ala Ser Ser His Pro Glu Asn Ser Glu Glu Glu Glu Cys Met Gly Ala
 465 470 475 480
 Ala Ala Ala Val Gly Pro Ala Met Cys Gly Val Glu Leu Asp Ser Leu
 485 490 495
 Ile Ser Gln Val Lys Asp Leu Leu Pro Asp Leu Gly Glu Gly Phe Ile
 500 505 510
 Leu Ala Cys Leu Glu Tyr Tyr His Tyr Asp Pro Glu Gln Val Ile Asn
 515 520 525
 Asn Ile Leu Glu Glu Arg Leu Ala Pro Thr Leu Ser Gln Leu Asp Arg
 530 535 540
 Asn Leu Asp Arg Glu Met Lys Pro Asp Pro Thr Pro Leu Leu Thr Ser
 545 550 555 560
 Arg His Asn Val Phe Gln Asn Asp Glu Phe Asp Val Phe Ser Arg Asp
 565 570 575
 Ser Val Asp Leu Ser Arg Val His Lys Gly Lys Ser Thr Arg Lys Glu
 580 585 590

5442

Glu Asn Thr Arg Ser Leu Leu Asn Asp Lys Arg Ala Val Ala Ala Gln
 595 600 605
 Arg Gln Arg Tyr Glu Gln Tyr Ser Val Val Val Glu Glu Val Pro Leu
 610 615 620
 Gln Pro Gly Glu Ser Leu Pro Tyr His Ser Val Tyr Tyr Glu Asp Glu
 625 630 635 640
 Tyr Asp Asp Thr Tyr Asp Gly Asn Gln Val Gly Ala Asn Asp Ala Asp
 645 650 655
 Ser Asp Asp Glu Leu Ile Ser Arg Arg Pro Phe Thr Ile Pro Gln Val
 660 665 670
 Leu Arg Thr Lys Val Pro Arg Glu Gly Gln Glu Glu Asp Asp Asp Asp
 675 680 685
 Glu Glu Asp Asp Ala Asp Glu Glu Ala Pro Lys Pro Asp His Phe Val
 690 695 700
 Gln Asp Pro Ala Val Leu Arg Glu Lys Ala Glu Ala Arg Arg Met Ala
 705 710 715 720
 Phe Leu Ala Lys Lys Gly Tyr Arg His Asp Ser Ser Thr Ala Val Ala
 725 730 735
 Gly Ser Pro Arg Gly His Gly Gln Ser Arg Glu Thr Thr Gln Glu Arg
 740 745 750
 Arg Lys Lys Glu Ala Asn Lys Ala Thr Arg Ala Asn His Asn Arg Arg
 755 760 765
 Thr Met Ala Asp Arg Lys Arg Ser Lys Gly Met Ile Pro Ser
 770 775 780

<210> 6222

<211> 345

<212> PRT

<213> Homo sapiens

<400> 6222

Ile Arg His Glu Pro Gly Ser Thr Gln Ser Lys Thr Leu Met Ala Ala
 1 5 10 15

Val Phe Leu Val Thr Leu Tyr Glu Tyr Ser Pro Leu Phe Tyr Ile Ala
 20 25 30

Val Val Phe Thr Cys Phe Ile Val Thr Thr Gly Leu Val Leu Gly Trp

5443

35	40	45	
Phe Gly Trp Asp Val	Pro Val Ile Leu Arg Asn Ser	Glu Glu Thr Gln	
50	55	60	
Phe Ser Thr Arg Val	Phe Lys Lys Gln Met Arg Gln Val Lys Asn Pro		
65	70	75	80
Phe Gly Leu Glu Ile Thr Asn Pro Ser Ser Ala Ser Ile Thr Thr Gly			
85	90	95	
Ile Thr Leu Thr Thr Asp Cys Leu Glu Asp Ser Leu Leu Thr Cys Tyr			
100	105	110	
Trp Gly Cys Ser Val Gln Lys Leu Tyr Glu Ala Leu Gln Lys His Val			
115	120	125	
Tyr Cys Phe Arg Ile Ser Thr Pro Gln Ala Leu Glu Asp Ala Leu Tyr			
130	135	140	
Ser Glu Tyr Leu Tyr Gln Glu Gln Tyr Phe Ile Lys Lys Asp Ser Lys			
145	150	155	160
Glu Glu Ile Tyr Cys Gln Leu Pro Arg Asp Thr Lys Ile Glu Asp Phe			
165	170	175	
Gly Thr Val Pro Arg Ser Arg Tyr Pro Leu Val Ala Leu Leu Thr Leu			
180	185	190	
Ala Asp Glu Asp Asp Arg Glu Ile Tyr Asp Ile Ile Ser Met Val Ser			
195	200	205	
Val Ile His Ile Pro Asp Arg Thr Tyr Lys Leu Ser Cys Arg Ile Leu			
210	215	220	
Tyr Gln Tyr Leu Leu Leu Ala Gln Gly Gln Phe His Asp Leu Lys Gln			
225	230	235	240
Leu Phe Met Ser Ala Asn Asn Asn Phe Thr Pro Ser Asn Asn Ser Ser			
245	250	255	
Ser Glu Glu Lys Asn Thr Asp Arg Ser Leu Leu Glu Lys Val Gly Leu			
260	265	270	
Ser Glu Ser Glu Val Glu Pro Ser Glu Glu Asn Ser Lys Asp Cys Val			
275	280	285	
Val Cys Gln Asn Gly Thr Val Asn Trp Val Leu Leu Pro Cys Arg His			
290	295	300	
Thr Cys Leu Cys Asp Gly Cys Val Lys Tyr Phe Gln Gln Cys Pro Met			

305 310 315 320

Cys Arg Gln Phe Val Gln Glu Ser Phe Ala Leu Cys Ser Gln Lys Glu
 325 330 335

Gln Asp Lys Asp Lys Pro Lys Thr Leu
 340 345

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<400> 6223
Arg Ser Pro Thr Glu Thr Leu Phe Cys Lys Glu Pro Thr Ser Arg Ala
  1          5          10          15
Ala Ala Ala Arg Glu Glu Ser Thr Cys Ser Ser Arg Leu Thr Val Arg
      20          25          30
Leu Ser Ser Ala Leu Ala Gly Glu Gly Pro Gln Ala Ser Pro Thr Ala
      35          40          45
Thr Glu Arg Ala Ser Leu Gln Gly Asn His Ile Arg His Ala Cys Ala
      50          55          60
His Ser Arg Leu Lys Thr Ala Ser Lys Met Ser Met Lys Pro Leu Ser
  65          70          75          80
Ser Arg Ala Val Ser Phe Asn Thr Ser Glu Tyr Tyr Leu Trp Leu Lys
      85          90          95
Gly Cys Met Cys Ile Gly Val Cys Val Cys Val Cys Val Cys Val Phe
      100          105          110
Gly Leu Val Trp Arg Met Lys Lys Gly Phe His Leu Gly Ile Cys Lys
      115          120          125
Tyr Ser Met Ala Ser
      130

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$\langle 220 \rangle$

5445

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6224

Gly Thr Ala Glu Glu Leu Lys Arg Asn Ala Glu Thr Gly Asn Leu Pro
 1 5 10 15

His Ser Tyr Arg Leu Ile Ser Val Val Ser His Ile Gly Ser Thr Ser
 20 25 30

Ser Ser Gly His Tyr Ile Ser Asp Val Tyr Asp Ile Lys Lys Gln Ala
 35 40 45

Trp Phe Thr Tyr Asn Asp Leu Glu Val Ser Lys Ile Gln Glu Ala Ala
 50 55 60

Val Gln Ser Asp Arg Asp Arg Ser Gly Tyr Ile Phe Phe Tyr Met His
 65 70 75 80

Lys Glu Ile Phe Asp Glu Leu Leu Glu Thr Glu Lys Asn Ser Gln Ser
 85 90 95

Leu Ser Thr Glu Val Gly Lys Thr Thr Arg Gln Xaa Ser
 100 105

<210> 6225

<211> 219

<212> PRT

<213> Homo sapiens

<400> 6225

Pro Gly Ala Ala Trp Ser Arg Pro Asp Leu Arg Gly Cys Cys Thr Gly
 1 5 10 15

Pro Gln Pro Ala Leu Arg Met Leu Val Leu Pro Ser Pro Cys Pro Gln
 20 25 30

Pro Leu Ala Phe Ser Ser Val Glu Thr Met Glu Gly Pro Pro Arg Arg
 35 40 45

Thr Cys Arg Ser Pro Glu Pro Gly Pro Ser Ser Ser Ile Gly Ser Pro
 50 55 60

Gln Ala Ser Ser Pro Pro Arg Pro Asn His Tyr Leu Leu Ile Asp Thr
 65 70 75 80

Gln Gly Val Pro Tyr Thr Val Leu Val Asp Glu Glu Ser Gln Arg Glu
 85 90 95

5446

Pro Gly Ala Ser Gly Ala Pro Gly Gln Lys Lys Cys Tyr Ser Cys Pro
 100 105 110
 Val Cys Ser Arg Val Phe Glu Tyr Met Ser Tyr Leu Gln Arg His Ser
 115 120 125
 Ile Thr His Ser Glu Val Lys Pro Phe Glu Cys Asp Ile Cys Gly Lys
 130 135 140
 Ala Phe Lys Arg Ala Ser His Leu Ala Arg His His Ser Ile His Leu
 145 150 155 160
 Ala Gly Gly Gly Arg Pro His Gly Cys Pro Leu Cys Pro Arg Arg Phe
 165 170 175
 Arg Asp Ala Gly Glu Leu Ala Gln His Ser Arg Val His Ser Gly Glu
 180 185 190
 Arg Pro Phe Gln Cys Pro His Cys Pro Arg Arg Phe Met Glu Gln Asn
 195 200 205
 Thr Leu Gln Lys His Thr Arg Trp Lys His Pro
 210 215

<210> 6226

<211> 163

<212> PRT

<213> Homo sapiens

<400> 6226

Val Tyr Leu Phe Ile Tyr Phe Arg Asn Lys Ser Leu Gly Asp Lys Ser
 1 5 10 15
 Glu Thr Leu Ser Pro Lys Lys Lys Lys Lys Lys Lys Asn Trp Ile
 20 25 30
 Ala Trp Leu Tyr Ser Gly His Ser Met Gln Ala Gln Phe Cys Cys Ser
 35 40 45
 Ala Val Cys Ser Ala Phe Leu His Ile Leu Ala Ser Pro Ser Gly Ala
 50 55 60
 Lys Met Ala Ala Ala Phe Gln Ala Ser His Pro Asp Ser Asp Pro Glu
 65 70 75 80
 Lys Leu Pro Ile Pro Thr Trp Val Ser Leu Cys Arg Asn Glu Lys Pro
 85 90 95

5447

His Pro Ala Ala Glu Thr Ser Pro Ser Ser Val Phe Ser Gly Leu Ile
100 105 110

His Gln Arg Arg Pro Pro Leu Asn Gln Ser Leu Ala Lys Arg Met Gly
115 120 125

Pro Pro Gly Arg Leu Asp Gln Thr Gly Pro Ala Leu Trp Gly Trp Gly
130 135 140

Glu Ala Gln Met Lys Ala Ala Gly Gln Asp Gly Leu Leu Asp Leu Cys
145 150 155 160

Tyr Gln Gln

<210> 6227

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

5448

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6227

His	Arg	Arg	Lys	Gly	Lys	Asp	Arg	Val	Arg	Gln	Gly	Ala	Trp	Gly	Gly
1				5					10					15	

Ala	Met	Val	Pro	Met	His	Leu	Leu	Gly	Arg	Leu	Glu	Lys	Pro	Leu	Leu
			20					25					30		

Leu	Leu	Cys	Cys	Ala	Ser	Phe	Leu	Leu	Gly	Leu	Ala	Leu	Leu	Gly	Ile
		35					40					45			

Lys	Thr	Asp	Ile	Thr	Pro	Val	Ala	Tyr	Phe	Phe	Leu	Thr	Leu	Gly	Gly
	50					55					60				

Phe	Phe	Leu	Phe	Ala	Tyr	Leu	Leu	Val	Arg	Phe	Leu	Glu	Trp	Gly	Leu
65					70					75					80

Arg	Ser	Gln	Leu	Gln	Ser	Met	Gln	Thr	Xaa	Ser	Pro	Gly	Xaa	Ser	Gly
				85					90					95	

Asn	Ala	Arg	Asp	Asn	Glu	Ala	Phe	Glu	Val	Pro	Val	Tyr	Glu	Glu	Ala
			100					105					110		

Val	Val	Gly	Leu	Glu	Ser	Gln	Cys	Arg	Pro	Lys	Ser	Trp	Thr	Asn	His
		115					120					125			

Pro	Pro	Thr	Ala	Thr	Gly	Gly	Asp	Thr	Pro	Ser	Thr	Leu	Xaa	Xaa	Glu
	130					135					140				

Gln	Pro	Ser	Pro	Phe	Gln	Lys	Gly	Ser	Arg	Xaa	Lys	Pro	Lys	Leu	Gly
145					150					155					160

Thr	Glu	Ala	Glu	Trp	Ala	Leu	Xaa	Gly	Gly	Pro	Met	Gly	Pro	Arg	Lys
				165					170					175	

Gly	Xaa	Pro	Trp	Glu	Glu	Leu	Pro	Asn
		180						185

<210> 6228

<211> 58

<212> PRT

<213> Homo sapiens

<220>

5449

<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6228
Val Leu Leu Ser Gln Leu Gln Arg Ala Gly Ala Arg Xaa Pro Ser Gly
1 5 10 15
Leu Pro Gly Ala Pro Gly Thr Ala Leu His His Pro Pro Arg Glu Gly
20 25 30
Asp Ser Glu Ala Gln Xaa Gly Pro Xaa Pro Thr Glu Pro Thr Pro Pro
35 40 45
Tyr Ser Ser Xaa Leu Lys Asn Ile Xaa Gly
50 55

<210> 6229
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5450

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6229

Met	Ser	Tyr	Cys	Asp	Glu	Ser	Arg	Leu	Ser	Asn	Leu	Leu	Arg	Arg	Ile
1				5					10					15	

Thr	Arg	Glu	Xaa	Asp	Arg	Asp	Xaa	Arg	Leu	Xaa	Thr	Val	Lys	Gln	Leu
			20					25					30		

Lys	Glu	Phe	Ile	Gln	Gln	Pro	Glu	Asn	Lys	Leu	Val	Leu	Val	Lys	Gln
		35					40					45			

Leu	Asp	Ile	Leu	Ala	Ala	Xaa	His	Asp	Val	Leu	Asn	Glu	Ser	Ser	Lys
	50					55					60				

Leu	Leu	Gln	Glu	Leu	Arg	Gln	Glu	Gly	Ala	Cys	Cys	Leu	Gly	Leu	Leu
65					70					75					80

Cys	Ala	Ser	Leu	Ser	Tyr	Glu	Ala	Glu	Lys	Ile	Phe	Lys	Trp	Ile	Phe
				85					90					95	

5451

Ser Lys Phe Ser Ser Ser Ala Lys Asp Glu Val Lys Leu Leu Tyr Leu
 100 105 110
 Cys Ala Thr Tyr Lys Ala Leu Glu Thr Val Gly Glu Lys Lys Ala Phe
 115 120 125
 Ser Ser Val Met Gln Leu Val Met Thr Ser Leu Gln Ser Ile Leu Glu
 130 135 140
 Asn Val Asp Thr Pro Glu Leu Leu Cys Lys Cys Val Lys Cys Ile Leu
 145 150 155 160
 Leu Val Ala Arg Cys Tyr Pro His Ile Phe Ser Xaa Asn Phe Arg Asp
 165 170 175
 Thr Val Xaa Ile Leu Val Gly Trp His Arg Asp His Thr Gln Lys Pro
 180 185 190
 Ser Leu Thr Gln Gln Val Ser Gly Trp Leu Gln Ser Leu Glu Pro Phe
 195 200 205
 Trp Val Ala Asp Leu Ala Phe Xaa Thr Xaa Leu Leu Gly Ser Val Ser
 210 215 220
 Arg Arg His Gly Ser Ile Cys
 225 230

<210> 6230

<211> 305

<212> PRT

<213> Homo sapiens

<400> 6230

Asp Trp Val Ser Val Gly Gly Ala Trp Val Trp Arg Ala Gly Gln Gly
 1 5 10 15
 Leu Leu Gly Leu Gly Asp Gly Asp Gly Ala Gly Ser Gln Arg Arg Gln
 20 25 30
 Gly Leu Arg Ala Glu Glu Arg Thr Trp Ser Pro Gly Ser Arg Val Gly
 35 40 45
 Asp Ala Ala Arg His Arg Cys Phe Leu Lys Val Ser Arg Leu Glu Ala
 50 55 60
 Gln Leu Leu Leu Glu Arg Tyr Pro Glu Cys Gly Asn Leu Leu Leu Arg
 65 70 75 80

5452

Pro Ser Gly Asp Gly Ala Asp Gly Val Ser Val Thr Thr Arg Gln Met
 85 90 95
 His Asn Gly Thr His Val Val Arg His Tyr Lys Val Lys Arg Glu Gly
 100 105 110
 Pro Lys Tyr Val Ile Asp Val Glu Gln Pro Phe Ser Cys Thr Ser Leu
 115 120 125
 Asp Ala Val Val Asn Tyr Phe Val Ser His Thr Lys Lys Ala Leu Val
 130 135 140
 Pro Phe Leu Leu Asp Glu Asp Tyr Glu Lys Val Leu Gly Tyr Val Glu
 145 150 155 160
 Ala Asp Lys Glu Asn Gly Glu Asn Val Trp Val Ala Pro Ser Ala Pro
 165 170 175
 Gly Pro Gly Pro Ala Pro Cys Thr Gly Gly Pro Lys Pro Leu Ser Pro
 180 185 190
 Ala Ser Ser Gln Asp Lys Leu Pro Pro Leu Pro Pro Leu Pro Asn Gln
 195 200 205
 Glu Glu Asn Tyr Val Thr Pro Ile Gly Asp Gly Pro Ala Val Asp Tyr
 210 215 220
 Glu Asn Gln Asp Val Ala Ser Ser Ser Trp Pro Val Ile Leu Lys Pro
 225 230 235 240
 Lys Lys Leu Pro Lys Pro Pro Ala Lys Leu Pro Lys Pro Pro Val Gly
 245 250 255
 Pro Lys Pro Glu Pro Lys Val Phe Asn Gly Gly Leu Gly Arg Lys Leu
 260 265 270
 Pro Val Ser Ser Ala Gln Pro Leu Phe Pro Thr Ala Gly Leu Ala Asp
 275 280 285
 Met Thr Ala Glu Leu Gln Lys Lys Leu Glu Lys Arg Arg Ala Leu Glu
 290 295 300

His
 305

<210> 6231
 <211> 210
 <212> PRT
 <213> Homo sapiens

5453

<400> 6231

Thr Met Ala Ser Met Gly Leu Gln Val Met Gly Ile Ala Leu Ala Val
1 5 10 15
Leu Gly Trp Leu Ala Val Met Leu Cys Cys Ala Leu Pro Met Trp Arg
20 25 30
Val Thr Ala Phe Ile Gly Ser Asn Ile Val Thr Ser Gln Thr Ile Trp
35 40 45
Glu Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr Gly Gln Met Gln
50 55 60
Cys Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala
65 70 75 80
Ala Arg Ala Leu Val Ile Ile Ser Ile Ile Val Ala Ala Leu Gly Val
85 90 95
Leu Leu Ser Val Val Gly Gly Lys Cys Thr Asn Cys Leu Glu Asp Glu
100 105 110
Ser Ala Lys Ala Lys Thr Met Ile Val Ala Gly Val Val Phe Leu Leu
115 120 125
Ala Gly Leu Met Val Ile Val Pro Val Ser Trp Thr Ala His Asn Ile
130 135 140
Ile Gln Asp Phe Tyr Asn Pro Leu Val Ala Ser Gly Gln Lys Arg Glu
145 150 155 160
Met Gly Ala Ser Leu Tyr Val Gly Trp Ala Ala Ser Gly Leu Leu Leu
165 170 175
Leu Gly Gly Gly Leu Leu Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys
180 185 190
Pro Tyr Ser Ala Lys Tyr Ser Ala Ala Arg Ser Ala Ala Ala Ser Asn
195 200 205
Tyr Val
210

<210> 6232

<211> 88

<212> PRT

<213> Homo sapiens

5454

<400> 6232

Ser Phe Asn Pro Trp Pro Pro Pro Arg Asn Ser Asp Phe Ser Arg Glu
 1 5 10 15
 Glu Glu Ala Ala Gly Ala Val Gly Leu Gly Leu His Arg Ala Gly Arg
 20 25 30
 Ala Val Gly Lys Ala Gly Glu Leu Leu Cys Cys Trp Ala Ser Leu Trp
 35 40 45
 Pro Ser Leu Pro Thr Leu Arg Cys Met Lys Cys Met Tyr Arg Pro Glu
 50 55 60
 Met Phe Ile Gln Pro Ile Lys Met Glu Phe Pro Tyr Leu Ser Val Lys
 65 70 75 80
 Lys Lys Lys Lys Lys Lys Leu Glu
 85

<210> 6233

<211> 33

<212> PRT

<213> Homo sapiens

<400> 6233

Asp Asn Lys Leu Ile Leu Asn Ala Ile Tyr Val Leu Ser Leu Leu Trp
 1 5 10 15
 His Leu Phe Arg Ser Cys Ser Asn His Cys Ser Arg Ala Leu Gln Ile
 20 25 30
 Lys

<210> 6234

<211> 63

<212> PRT

<213> Homo sapiens

<400> 6234

Leu Leu Leu Leu Leu Gly Met Ala Ala Arg Ile Val Glu Arg Arg Gly
 1 5 10 15
 Leu Glu Ser Trp Ser Asn Pro Gly Leu Lys Ser Gly Leu Val Ile Phe
 20 25 30
 Gln Leu Leu Ser Trp Val Ser Phe Ala Asn Phe Leu Ser Phe Ile Ser

35 40 45

Leu Ile Asn Thr Val Gly His Asn Ser Tyr Ser Cys Ile Glu Asn
50 55 60

<210> 6235
<211> 178
<212> PRT
<213> Homo sapiens

<400> 6235

Gln Leu Leu Asp Lys His Ser Ala Ala Gly Phe Ala Met Ala Ala Ile
1 5 10 15
Pro Pro Asp Ser Trp Gln Pro Pro Asn Val Tyr Leu Glu Thr Ser Met
20 25 30
Gly Ile Ile Val Leu Glu Leu Tyr Trp Lys His Ala Pro Lys Thr Cys
35 40 45
Lys Asn Phe Ala Glu Leu Ala Arg Arg Gly Tyr Tyr Asn Gly Thr Lys
50 55 60
Phe His Arg Ile Ile Lys Asp Phe Met Ile Gln Gly Gly Asp Pro Thr
65 70 75 80
Gly Thr Gly Arg Gly Gly Ala Ser Ile Tyr Gly Lys Gln Phe Glu Asp
85 90 95
Glu Leu His Pro Asp Leu Lys Phe Thr Gly Ala Gly Ile Leu Ala Met
100 105 110
Ala Asn Ala Gly Pro Asp Thr Asn Gly Ser Gln Phe Phe Val Thr Leu
115 120 125
Ala Pro Thr Gln Trp Leu Asp Gly Lys His Thr Ile Phe Gly Arg Val
130 135 140
Cys Gln Gly Ile Gly Met Val Asn Arg Val Gly Met Val Glu Thr Asn
145 150 155 160
Ser Gln Asp Arg Pro Val Asp Asp Val Lys Ile Ile Lys Ala Tyr Pro
165 170 175
Ser Gly

5456

<210> 6236
 <211> 175
 <212> PRT
 <213> Homo sapiens

<400> 6236
 Met Asp Val Lys Thr Leu Val Gln Gln Leu Tyr Thr Thr Leu Cys Ile
 1 5 10 15
 Glu Gln His Gln Leu Asn Lys Glu Arg Glu Leu Ile Glu Arg Leu Glu
 20 25 30
 Asp Leu Lys Glu Gln Leu Ala Pro Leu Glu Lys Val Arg Ile Glu Ile
 35 40 45
 Ser Arg Lys Ala Glu Lys Arg Thr Thr Leu Val Leu Trp Gly Gly Leu
 50 55 60
 Ala Tyr Met Ala Thr Gln Phe Gly Ile Leu Ala Arg Leu Thr Trp Trp
 65 70 75 80
 Glu Tyr Ser Trp Asp Ile Met Glu Pro Val Thr Tyr Phe Ile Thr Tyr
 85 90 95
 Gly Ser Ala Met Ala Met Tyr Ala Tyr Phe Val Met Thr Arg Gln Glu
 100 105 110
 Tyr Val Tyr Pro Glu Ala Arg Asp Arg Gln Tyr Leu Leu Phe Phe His
 115 120 125
 Lys Gly Ala Lys Lys Ser Arg Phe Asp Leu Glu Lys Tyr Asn Gln Leu
 130 135 140
 Lys Asp Ala Ile Ala Gln Ala Glu Met Asp Leu Lys Arg Leu Arg Asp
 145 150 155 160
 Pro Leu Gln Val His Leu Pro Leu Arg Gln Ile Gly Glu Lys Asp
 165 170 175

<210> 6237
 <211> 461
 <212> PRT
 <213> Homo sapiens

<400> 6237
 Thr Arg Pro Lys Leu Cys Ala Gly Ile Met Ile Thr Ala Ser His Asn
 1 5 10 15
 Pro Lys Gln Asp Asn Gly Tyr Lys Val Tyr Trp Asp Asn Gly Ala Gln

				20				25				30			
Ile	Ile	Ser	Pro	His	Asp	Lys	Gly	Ile	Ser	Gln	Ala	Ile	Glu	Glu	Asn
		35					40					45			
Leu	Glu	Pro	Trp	Pro	Gln	Ala	Trp	Asp	Asp	Ser	Leu	Ile	Asp	Ser	Ser
		50					55					60			
Pro	Leu	Leu	His	Asn	Pro	Ser	Ala	Ser	Ile	Asn	Asn	Asp	Tyr	Phe	Glu
		65					70					75			
Asp	Leu	Lys	Lys	Tyr	Cys	Phe	His	Arg	Ser	Val	Asn	Arg	Glu	Thr	Lys
				85							90			95	
Val	Lys	Phe	Val	His	Thr	Ser	Val	His	Gly	Val	Gly	His	Ser	Phe	Val
				100							105			110	
Gln	Ser	Ala	Phe	Lys	Ala	Phe	Asp	Leu	Val	Pro	Pro	Glu	Ala	Val	Pro
				115									125		
Glu	Gln	Lys	Asp	Pro	Asp	Pro	Glu	Phe	Pro	Thr	Val	Lys	Tyr	Pro	Asn
														140	
Pro	Glu	Glu	Gly	Lys	Gly	Val	Leu	Thr	Leu	Ser	Phe	Ala	Leu	Ala	Asp
Lys	Thr	Lys	Ala	Arg	Ile	Val	Leu	Ala	Asn	Asp	Pro	Asp	Ala	Asp	Arg
Leu	Ala	Val	Ala	Glu	Lys	Gln	Asp	Ser	Gly	Glu	Trp	Arg	Val	Phe	Ser
Gly	Asn	Glu	Leu	Gly	Ala	Leu	Leu	Gly	Trp	Trp	Leu	Phe	Thr	Ser	Trp
Lys	Glu	Lys	Asn	Gln	Asp	Arg	Ser	Ala	Leu	Lys	Asp	Thr	Tyr	Met	Leu
Ser	Ser	Thr	Val	Ser	Ser	Lys	Ile	Leu	Arg	Ala	Ile	Ala	Leu	Lys	Glu
Gly	Phe	His	Phe	Glu	Glu	Thr	Leu	Thr	Gly	Phe	Lys	Trp	Met	Gly	Asn
Arg	Ala	Lys	Gln	Leu	Ile	Asp	Gln	Gly	Lys	Thr	Val	Leu	Phe	Ala	Phe
Glu	Glu	Ala	Ile	Gly	Tyr	Met	Cys	Cys	Pro	Phe	Val	Leu	Asp	Lys	Asp
Gly	Val	Ser	Ala	Ala	Val	Ile	Ser	Ala	Glu	Leu	Ala	Ser	Phe	Leu	Ala

5458

290 295 300
 Thr Lys Asn Leu Ser Leu Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu
 305 310 315 320
 Tyr Gly Tyr His Ile Thr Lys Ala Ser Tyr Phe Ile Cys His Asp Gln
 325 330 335
 Glu Thr Ile Lys Lys Leu Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys
 340 345 350
 Asn Asn Tyr Pro Lys Ala Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg
 355 360 365
 Asp Leu Thr Thr Gly Tyr Asp Asp Ser Gln Pro Asp Lys Lys Ala Val
 370 375 380
 Leu Pro Thr Ser Lys Ser Ser Gln Met Ile Thr Phe Thr Phe Ala Asn
 385 390 395 400
 Gly Gly Val Ala Thr Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys
 405 410 415
 Tyr Tyr Ala Glu Leu Cys Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln
 420 425 430
 Leu Lys Lys Glu Leu Asn Glu Leu Val Ser Ala Ile Glu Glu His Phe
 435 440 445
 Phe Gln Pro Gln Lys Tyr Asn Leu Gln Pro Lys Ala Asp
 450 455 460

<210> 6238

<211> 925

<212> PRT

<213> Homo sapiens

<400> 6238

Ala Arg Gly Glu Ile Thr Gly Arg Cys Thr Ala Met Gly Pro Phe Lys
 1 5 10 15
 Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu Glu Gly Ala Leu Ser
 20 25 30
 Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr Glu Gly Ile Val Val
 35 40 45
 Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr Leu Ile Gln Gln Ile
 50 55 60

5459

Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu Phe Glu Ala Thr Gly
 65 70 75 80
 Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu Ile Pro Glu Thr Trp
 85 90 95
 Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu Glu Thr Tyr Lys Asn
 100 105 110
 Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro Gly Asn Asp Glu Pro
 115 120 125
 Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys Gly Glu Arg Ile His
 130 135 140
 Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro
 145 150 155 160
 Gln Gly Arg Ala Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val
 165 170 175
 Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly Arg
 180 185 190
 Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn Val Val
 195 200 205
 Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys Thr Phe Asn
 210 215 220
 Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe Val Leu Gln Ser
 225 230 235 240
 Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala Gln His Val Asp Ser
 245 250 255
 Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn Lys Glu Ala Pro Asn
 260 265 270
 Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr Trp Glu Val Ile Arg
 275 280 285
 Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met Thr Thr Gln Pro Pro
 290 295 300
 Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln Arg Ile Val Cys Leu
 305 310 315 320
 Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly Asn Arg Leu Asn Arg
 325 330 335

5460

Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln Thr Val Glu Leu Gly
 340 345 350
 Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala Ala His Val Gln Ser
 355 360 365
 Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg Asp Thr Leu Ala Lys
 370 375 380
 Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu
 385 390 395 400
 Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser
 405 410 415
 Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly Cys
 420 425 430
 Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile His Thr Val Ala Leu
 435 440 445
 Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu Ser Lys Met Thr Gly
 450 455 460
 Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln Asn Asn Gly Leu Ile
 465 470 475 480
 Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly Ala Val Ser Gln Arg
 485 490 495
 Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu Gln Asn Ser Gln Trp
 500 505 510
 Met Asn Gly Thr Val Ile Val Asp Ser Thr Val Gly Lys Asp Thr Leu
 515 520 525
 Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln Ile Leu Leu Trp Asp
 530 535 540
 Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val Asp Lys Asn Thr Lys
 545 550 555 560
 Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys Val Gly Thr Trp Lys
 565 570 575
 Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser
 580 585 590
 Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr
 595 600 605

5461

Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn
 610 615 620
 Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu
 625 630 635 640
 Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn
 645 650 655
 Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg Tyr
 660 665 670
 Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser Val Lys Val Arg Ala
 675 680 685
 Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val Ile Pro Gln Gln Ser
 690 695 700
 Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn Asp Glu Ile Gln Trp
 705 710 715 720
 Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp Val Gln His Lys Gln
 725 730 735
 Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser Phe Val Ala Ser Asp
 740 745 750
 Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro Pro Gly Gln Ile Thr
 755 760 765
 Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu Ile Asn Leu Thr Trp
 770 775 780
 Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr Ala His Lys Tyr Ile
 785 790 795 800
 Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg Asp Lys Phe Asn Glu
 805 810 815
 Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro Lys Glu Ala Asn Ser
 820 825 830
 Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile Thr Phe Glu Asn Gly
 835 840 845
 Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp Lys Val Asp Leu Lys
 850 855 860
 Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu Phe Ile Pro Pro Gln
 865 870 875 880

5462

Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys Pro
 885 890 895

Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile His Ile Leu Lys Ile
 900 905 910

Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser Ile Ala
 915 920 925

<210> 6239

<211> 311

<212> PRT

<213> Homo sapiens

<400> 6239

Val Leu Lys Phe Leu Leu Leu Gln Thr Met Asp Glu Gln Ser Gln Gly
 1 5 10 15

Met Gln Gly Pro Pro Val Pro Gln Phe Gln Pro Gln Lys Ala Leu Arg
 20 25 30

Pro Asp Met Gly Tyr Asn Thr Leu Ala Asn Phe Arg Ile Glu Lys Lys
 35 40 45

Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Arg Ala Ala Cys Leu Leu
 50 55 60

Asp Gly Val Pro Val Ala Leu Lys Lys Val Gln Ile Phe Asp Leu Met
 65 70 75 80

Asp Ala Lys Ala Arg Ala Asp Cys Ile Lys Glu Ile Asp Leu Leu Lys
 85 90 95

Gln Leu Asn His Pro Asn Val Ile Lys Tyr Tyr Ala Ser Phe Ile Glu
 100 105 110

Asp Asn Glu Leu Asn Ile Val Leu Glu Leu Ala Asp Ala Gly Asp Leu
 115 120 125

Ser Arg Met Ile Lys His Phe Lys Lys Gln Lys Arg Leu Ile Pro Glu
 130 135 140

Arg Thr Val Trp Lys Tyr Phe Val Gln Leu Cys Ser Ala Leu Glu His
 145 150 155 160

Met His Ser Arg Arg Val Met His Arg Asp Ile Lys Pro Ala Asn Val
 165 170 175

5463

Phe Ile Thr Ala Thr Gly Val Val Lys Leu Gly Asp Leu Gly Leu Gly
 180 185 190

Arg Phe Phe Ser Ser Lys Thr Thr Ala Ala His Ser Leu Val Gly Thr
 195 200 205

Pro Tyr Tyr Met Ser Pro Glu Arg Ile His Glu Asn Gly Tyr Asn Phe
 210 215 220

Lys Ser Asp Ile Trp Ser Leu Gly Cys Leu Leu Tyr Glu Met Ala Ala
 225 230 235 240

Leu Gln Ser Pro Phe Tyr Gly Asp Lys Met Asn Leu Tyr Ser Leu Cys
 245 250 255

Lys Lys Ile Glu Gln Cys Asp Tyr Pro Pro Leu Pro Ser Asp His Tyr
 260 265 270

Ser Glu Glu Leu Arg Gln Leu Val Asn Met Cys Ile Asn Pro Asp Pro
 275 280 285

Glu Lys Arg Pro Asp Val Thr Tyr Val Tyr Asp Val Ala Lys Arg Met
 290 295 300

His Ala Cys Thr Ala Ser Ser
 305 310

<210> 6240

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5464

<222> (254)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6240

Gly	Gly	His	Leu	Leu	Pro	Gly	Pro	Ala	Ala	Val	His	Cys	Ala	Ser	Xaa
1				5					10					15	

Val	Leu	Leu	His	Pro	Pro	Pro	Ala	Asp	Leu	Cys	Trp	Tyr	Cys	Arg	Asp
			20					25					30		

Trp	Phe	Leu	Lys	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Val	Ser	Val	Leu	Ile
		35				40						45			

Ile	Leu	Pro	Leu	Ala	Leu	Met	Lys	His	Leu	Gly	Tyr	Leu	Gly	Tyr	Thr
	50					55					60				

Ser	Gly	Leu	Ser	Leu	Thr	Cys	Met	Leu	Phe	Phe	Leu	Val	Ser	Val	Ile
65					70					75					80

Tyr	Lys	Lys	Phe	Gln	Leu	Gly	Cys	Ala	Ile	Gly	His	Asn	Glu	Thr	Ala
				85					90					95	

Met	Glu	Ser	Glu	Ala	Leu	Val	Gly	Leu	Pro	Ser	Gln	Gly	Leu	Asn	Ser
			100					105					110		

Ser	Cys	Glu	Ala	Gln	Met	Phe	Thr	Val	Asp	Ser	Gln	Met	Ser	Tyr	Thr
		115					120					125			

Val	Pro	Ile	Met	Ala	Phe	Ala	Phe	Val	Cys	His	Pro	Glu	Val	Leu	Pro
	130					135					140				

Ile	Tyr	Thr	Glu	Leu	Cys	Arg	Ser	Thr	Thr	Ser	Thr	Pro	Gln	Ala	Leu
145					150					155					160

Gln	Ala	Gln	Asp	Ala	Gly	Arg	Gly	Gln	Arg	Val	His	Trp	Gly	His	Val
			165					170						175	

Leu	His	Val	Trp	Ala	His	Ser	Asn	Leu	Trp	Ile	Pro	His	Leu	Leu	Gln
		180						185					190		

Gln	Cys	Glu	Gly	Gly	Asp	Ala	Ala	His	Val	Gln	Pro	Glu	Gly	Pro	Ala
		195					200					205			

His	Pro	Leu	Cys	Ala	Pro	Gly	Arg	Ala	Ala	Ser	Xaa	Val	Thr	Pro	His
		210				215					220				

5465

Cys Ala Ser Arg Ala Gly Ser Tyr Pro Pro Gly Pro Gly Ser Asn Cys
 225 230 235 240

Phe Ser Gln Ala Arg Ala Phe Xaa Leu Ala Thr Thr Leu Xaa Ala Ile
 245 250 255

Ser Xaa

<210> 6241

<211> 149

<212> PRT

<213> Homo sapiens

<400> 6241

Val His Leu Leu Phe Ser Arg Pro Tyr Asp Gly Lys Trp Ser Lys
 1 5 10 15

Thr Met Val Gly Phe Gly Pro Glu Asp Asp His Phe Val Ala Glu Leu
 20 25 30

Thr Tyr Asn Tyr Gly Val Gly Asp Tyr Lys Leu Gly Asn Asp Phe Met
 35 40 45

Gly Ile Thr Leu Ala Ser Ser Gln Ala Val Ser Asn Ala Arg Lys Leu
 50 55 60

Glu Trp Pro Leu Thr Glu Val Ala Glu Gly Val Phe Glu Thr Glu Ala
 65 70 75 80

Pro Gly Gly Tyr Lys Phe Tyr Leu Gln Asn Arg Ser Leu Pro Gln Ser
 85 90 95

Asp Pro Val Leu Lys Val Thr Leu Ala Val Ser Asp Leu Gln Lys Ser
 100 105 110

Leu Asn Tyr Trp Cys Asn Leu Leu Gly Met Lys Ile Tyr Glu Lys Asp
 115 120 125

Glu Glu Lys Gln Arg Ala Leu Leu Gly Tyr Ala Asp Asn Gln Val Ser
 130 135 140

Asn Leu Gly Glu Glu
 145

<210> 6242

<211> 126

5466

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6242

Leu Ser Leu Arg Thr Arg Glu Thr Pro Ala Pro Pro Arg Cys Glu Ala
 1 5 10 15

Ala Ser Gln Gly Arg Val Gly Trp Arg Ala Asp Ala Ala Ala Glu Glu
 20 25 30

Ala Val Arg Ser Val Trp Asn Arg Thr Arg Asp Arg Gly Thr Met Ala
 35 40 45

Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr Leu Ile Gly
 50 55 60

Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu Gly Val Pro Arg
 65 70 75 80

Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr Arg Lys Leu Ala Leu
 85 90 95

Gln Leu His Pro Asp Arg Asn Pro Asp Asp Pro Gln Ala Gln Glu Lys
 100 105 110

Phe Gln Asp Leu Gly Ala Ala Tyr Glu Val Leu Val Arg Xaa
 115 120 125

<210> 6243

<211> 384

<212> PRT

<213> Homo sapiens

<400> 6243

Gly Ile Leu Ala His Ser Leu Ser Pro Thr Leu Leu Ser His Arg Cys
 1 5 10 15

Gln Glu Glu Cys Pro Phe Gly Ser Phe Gly Phe Gln Cys Ser Gln Arg
 20 25 30

Cys Asp Cys His Asn Gly Gly Gln Cys Ser Pro Thr Thr Gly Ala Cys
 35 40 45

Glu Cys Glu Pro Gly Tyr Lys Gly Pro Arg Cys Gln Glu Arg Leu Cys

5467

50		55		60
Pro Glu Gly Leu His Gly Pro Gly Cys Thr Leu Pro Cys Pro Cys Asp				
65		70		75
Ala Asp Asn Thr Ile Ser Cys His Pro Val Thr Gly Ala Cys Thr Cys				
	85		90	95
Gln Pro Gly Trp Ser Gly His His Cys Asn Glu Ser Cys Pro Val Gly				
	100		105	110
Tyr Tyr Gly Asp Gly Cys Gln Leu Pro Cys Thr Cys Gln Asn Gly Ala				
	115		120	125
Asp Cys His Ser Ile Thr Gly Gly Cys Thr Cys Ala Pro Gly Phe Met				
	130		135	140
Gly Glu Val Cys Ala Val Ser Cys Ala Ala Gly Thr Tyr Gly Pro Asn				
	145		150	155
Cys Ser Ser Ile Cys Ser Cys Asn Asn Gly Gly Thr Cys Ser Pro Val				
	165		170	175
Asp Gly Ser Cys Thr Cys Lys Glu Gly Trp Gln Gly Leu Asp Cys Thr				
	180		185	190
Leu Pro Cys Pro Ser Gly Thr Trp Gly Leu Asn Cys Asn Glu Ser Cys				
	195		200	205
Thr Cys Ala Asn Gly Ala Ala Cys Ser Pro Ile Asp Gly Ser Cys Ser				
	210		215	220
Cys Thr Pro Gly Trp Leu Gly Asp Thr Cys Glu Leu Pro Cys Pro Asp				
	225		230	235
Gly Thr Phe Gly Leu Asn Cys Ser Glu His Cys Asp Cys Ser His Ala				
	245		250	255
Asp Gly Cys Asp Pro Val Thr Gly His Cys Cys Cys Leu Ala Gly Trp				
	260		265	270
Thr Gly Ile Arg Cys Asp Ser Thr Cys Pro Pro Gly Arg Trp Gly Pro				
	275		280	285
Asn Cys Ser Val Ser Cys Ser Cys Glu Asn Gly Gly Ser Cys Ser Pro				
	290		295	300
Glu Asp Gly Ser Cys Glu Cys Ala Pro Gly Phe Arg Gly Pro Leu Cys				
	305		310	315
Gln Arg Ile Cys Pro Pro Gly Phe Tyr Gly His Gly Cys Ala Gln Pro				

5468

	325		330		335										
Cys	Pro	Leu	Cys	Val	His	Ser	Ser	Arg	Pro	Cys	His	His	Ile	Ser	Gly
			340					345					350		
Ile	Cys	Glu	Cys	Leu	Pro	Gly	Phe	Ser	Gly	Ala	Leu	Cys	Asn	Gln	Ala
		355					360					365			
Ser	Lys	Trp	Gln	Lys	Gln	Ile	Leu	Ile	Pro	Thr	Cys	Met	Leu	Lys	Gly
	370					375					380				

<210> 6244

<211> 159

<212> PRT

<213> Homo sapiens

<400> 6244

Ile	His	Met	Ala	Leu	Leu	Arg	Lys	Ile	Asn	Gln	Val	Leu	Leu	Phe	Leu
1				5					10					15	
Leu	Ile	Val	Thr	Leu	Cys	Val	Ile	Leu	Tyr	Lys	Lys	Val	His	Lys	Gly
			20					25					30		
Thr	Val	Pro	Lys	Asn	Asp	Ala	Asp	Asp	Glu	Ser	Glu	Thr	Pro	Glu	Glu
		35					40					45			
Leu	Glu	Glu	Glu	Ile	Pro	Val	Val	Ile	Cys	Ala	Ala	Ala	Gly	Arg	Met
	50					55					60				
Gly	Ala	Thr	Met	Ala	Ala	Ile	Asn	Ser	Ile	Tyr	Ser	Asn	Thr	Asp	Ala
65				70						75				80	
Asn	Ile	Leu	Phe	Tyr	Val	Val	Gly	Leu	Arg	Asn	Thr	Leu	Thr	Arg	Ile
			85					90						95	
Arg	Lys	Trp	Ile	Glu	His	Ser	Lys	Leu	Arg	Glu	Ile	Asn	Phe	Lys	Ile
			100					105					110		
Val	Glu	Phe	Asn	Pro	Met	Val	Leu	Lys	Gly	Lys	Ile	Arg	Pro	Asp	Ser
		115					120					125			
Ser	Arg	Pro	Glu	Leu	Leu	Gln	Pro	Leu	Asn	Phe	Val	Arg	Phe	Tyr	Leu
	130					135					140				
Pro	Leu	Leu	Ile	His	Gln	His	Glu	Glu	Ser	His	Leu	Phe	Gly	Arg	
145					150					155					

5469

<210> 6245

<211> 27

<212> PRT

<213> Homo sapiens

<400> 6245

Arg Gln Pro Lys Cys Pro Ser Thr Asp Glu Trp Ile Gln Lys Met Trp
 1 5 10 15

Tyr Val Tyr Thr Met Gly Thr Ser Gln Pro Gly
 20 25

<210> 6246

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6246

Asp Leu Met Ile Leu Asn Thr Gly Val Ser Pro Ala Gln Ala Leu Ser
 1 5 10 15

Leu Pro Ala Ala Ser His Val Arg His Asp Leu Leu Leu Leu Ala Phe
 20 25 30

His His Asp Cys Glu Ala Phe Pro Ala Thr Trp Asn Cys Lys Ser Ile
 35 40 45

Lys Pro Leu Phe Phe Tyr Lys Trp Pro Ser Leu Lys Tyr Xaa Phe Ile
 50 55 60

Asn Ser Val Lys Trp Thr Ser Thr Val Asn Trp Tyr Gln
 65 70 75

<210> 6247

<211> 251

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6247
Xaa Leu Val Leu Xaa Ser Tyr Leu Gly Asp Thr Ile Glu Gly Thr Pro
  1               5              10              15
Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Gly
      20              25              30
Ser Arg Gly Cys Gly Lys Gln His Ile Ser Asp Ser Ser Trp Leu Leu
      35              40              45
Asp Ser Ala Gly Arg Glu Gly Arg Leu Val Ala Met Ser Gln Gln Lys
      50              55              60
Cys Ile Val Ile Phe Ala Leu Val Cys Cys Phe Ala Ile Leu Val Ala
      65              70              75              80
Leu Ile Phe Ser Ala Val Asp Ile Met Gly Glu Asp Glu Asp Gly Leu
      85              90              95
Ser Glu Lys Asn Cys Gln Asn Lys Cys Arg Ile Ala Leu Val Glu Asn
      100             105             110
Ile Pro Glu Gly Leu Asn Tyr Ser Glu Asn Ala Pro Phe His Leu Ser
      115             120             125
Leu Phe Gln Gly Trp Met Asn Leu Leu Asn Met Ala Lys Lys Ser Val
      130             135             140
Asp Ile Val Ser Ser His Trp Asp Leu Asn His Thr His Pro Ser Ala
      145             150             155             160
Cys Gln Gly Gln Arg Leu Phe Glu Lys Leu Leu Gln Leu Thr Ser Gln
      165             170             175
Asn Ile Glu Ile Lys Leu Val Ser Asp Val Thr Ala Asp Ser Lys Val
      180             185             190
Leu Glu Ala Leu Lys Leu Lys Gly Ala Glu Val Thr Tyr Met Asn Met
      195             200             205
Thr Ala Tyr Asn Lys Gly Arg Leu Gln Ser Ser Phe Trp Ile Val Asp
      210             215             220

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5471

Lys Gln His Val Tyr Ile Gly Ser Ala Gly Leu Asp Trp Gln Ser Leu
 225 230 235 240

Gly Gln Val His Ile Leu Leu Tyr Ser Cys Lys
 245 250

<210> 6248

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6248

Lys Gly Val Thr Glu Phe Gln Gln Phe Ser Asp Phe Tyr Ile Leu Phe
 1 5 10 15

Leu Phe Leu Ser Asn Pro Cys Leu Leu Ser Pro Gly Gly Lys Tyr Ile
 20 25 30

Phe Phe Asn Val Phe Pro Ala Phe Leu Pro Lys Cys Val Phe Phe Phe
 35 40 45

Gly Leu Leu Tyr Pro Ala Ser Ser Ala Val Pro Gly Ile Gly Pro Ser
 50 55 60

Leu Gln Lys Pro Phe Gln Glu Tyr Leu Glu Ala Gln Arg Gln Lys Leu
 65 70 75 80

His His Lys Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser
 85 90 95

Trp Met Phe Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu
 100 105 110

Ser Ile Ile Asn Ser Met Ala Gln Ser Tyr Ala Lys Arg Ile Gln Gln
 115 120 125

Arg Leu Asn Ser Glu Glu Lys Thr Lys
 130 135

<210> 6249

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

5472

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6249

Ala Xaa Ser Trp Ala Ala Leu His Ser Gln Val Phe Pro Ala Leu Thr
1 5 10 15

Pro Lys Arg Trp Thr Gln Val Arg Arg Gly Thr Ala Thr Val Gly Gly
20 25 30

Met Ala Ile Leu Gln Val Thr Ala Gly His Pro Leu Ala Met Ala Gln
35 40 45

Gly Pro Ala Gly His Pro Pro Thr Met Val Gln Gly Pro Ala Gly His
50 55 60

Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His Pro Pro Thr Met Val
65 70 75 80

Gln Gly Pro Ala Gly Leu Pro Leu Ala Met Ala Gln Val Thr His Pro
85 90 95

Leu Val His Ile Thr Glu Glu Val Glu Glu Asn Arg Thr Gln Asp Gly
100 105 110

Lys Pro Glu Arg Ile Ala Gln Leu Thr Trp Asn Glu Ala
115 120 125

<210> 6250

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6250